The American

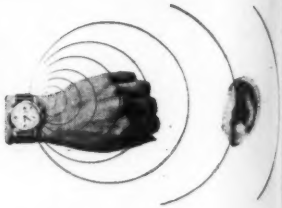
horologist *and* jeweler

INCORPORATING

Vol. 14 SEPTEMBER, 1947 No. 9

FOR ADVANCEMENT IN TIMEKEEPING

WORLD PREMIERE



VULCAIN

VULCAIN *presents the*

ALARM WRIST WATCH

the wrist watch that

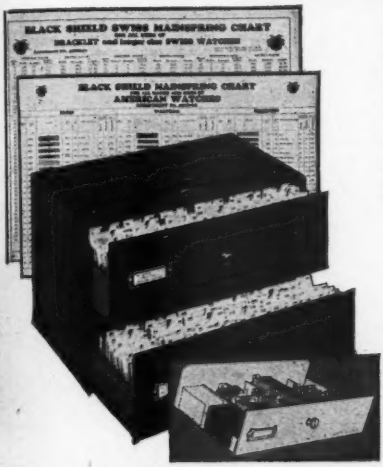
RINGS

They said it would take a miracle of engineering. And here it is—the VULCAIN Cricket—the watch that keeps you on time! Easy, precise alarm setting—even to ring but a few minutes hence! Rings right on the dot—loudly, clearly! In every way, a triumph of watch craftsmanship... brilliant beauty... elegant slimness ... functional perfection. Each gold VULCAIN Cricket Alarm Wrist Watch carries with it an Official Swiss Certificate—awarded only to those watches which have met the most rigid tests for precision timing. At present, only a limited number of VULCAIN Crickets are available. In stainless steel or 14 kt gold, to retail from $100 (plus 20% federal tax).

VULCAIN cricket

World Copyright, 1947, by **VULCAIN WATCH COMPANY, INC.** 630 FIFTH AVENUE, NEW YORK 20
West Coast Office: Hubert A. Wood, 649 So. Olive St., Los Angeles, California

Modern 1947 Black Shield
MAINSPRING SYSTEMS
In Swartchild's Steel Build-up Cabinets



Cabinet is beautifully mahogany grained and made to stack with Swartchild's other "Build-Up" watch material systems. These cabinets are built to last a lifetime, provision having been made for future expansion.

Black Shield Mainsprings, famous since 1890, have proven time and again, in impartial tests, to be the finest quality obtainable. They are the mainsprings of Dynamic Resilience. **Each mainspring is wrapped in oiled paper and packed in envelope printed to correspond with chart.**

Complete Charts for

BULOVA—GRUEN—BENRUS
WESTFIELD—A. SCHILD
ETA—FONTAINEMELON

These charts enable you to instantly select springs for the various Models or Calibres without the necessity of measuring the old spring. In addition to these popular Name charts, the usual chart of Dennison and Metric sizes is provided.

For AMERICAN Watches

Practically every American mainspring of a good usable size and make is included in this Black Shield assortment. Watchmakers desiring a complete coverage of American mainsprings, including bracelet sizes and the very latest models in 12 and 16 sizes, with a minimum quantity and at a low price, will choose this modern outfit.

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Volume XIV Number 9

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Incorporating Horology

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Since 1848 Timepieces of Accuracy

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- GLYCINE
- NICOLET
- HARVARD TIMERS

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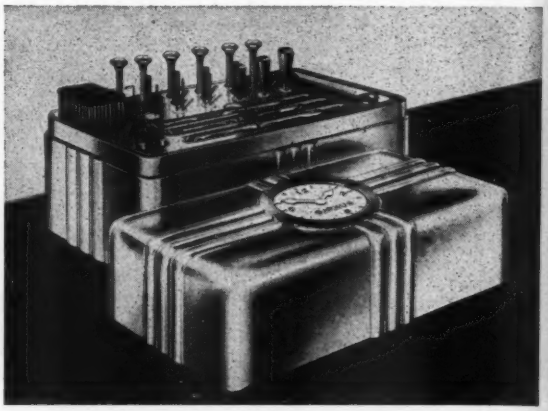
Another

NEW ITEM

by

BARKUS



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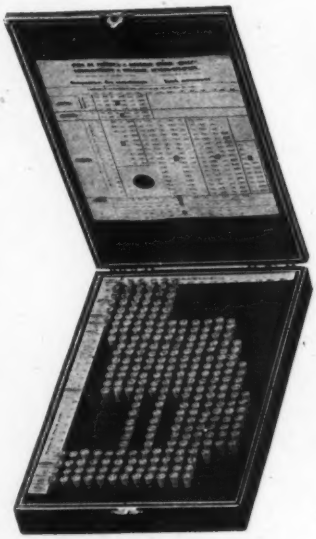

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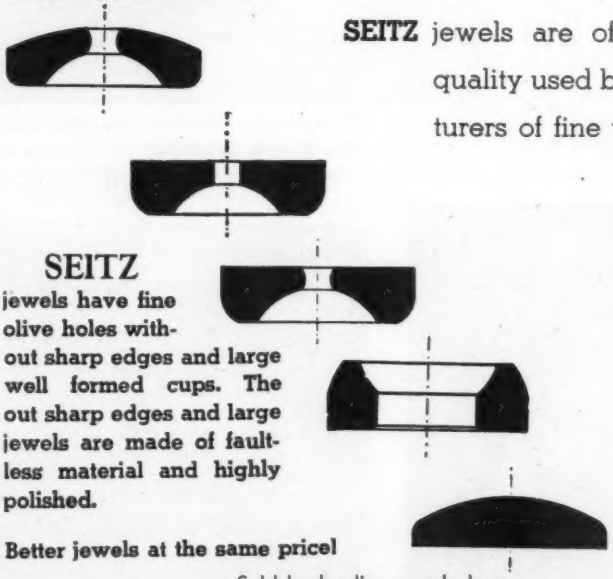

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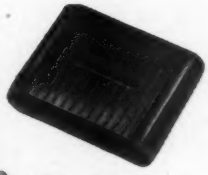

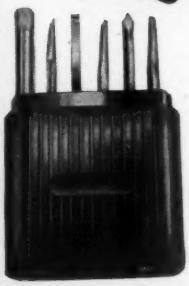

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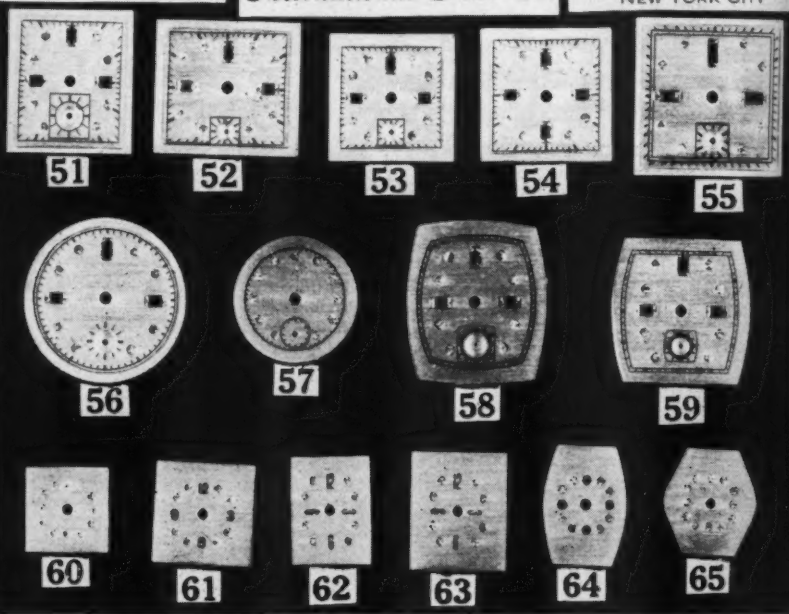

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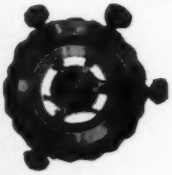

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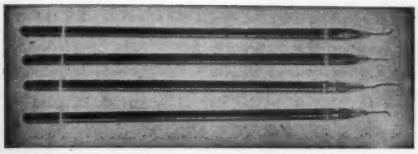

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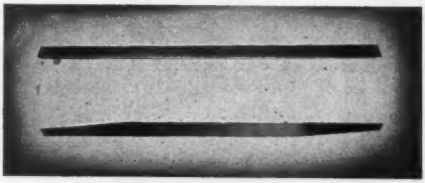

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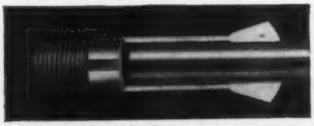
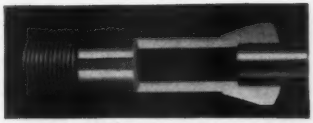
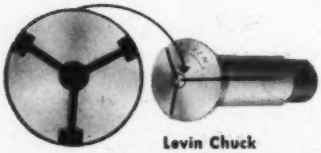
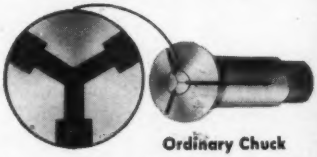




All Levin *high accuracy* chucks from sizes 51 to 64 are relieved to a depth of ¾" with no shoulder to interfere with lapping the hole true. *Compare true precision Levin chuck at left with ordinary chuck at right.*



Levin Chuck



Ordinary Chuck

Levin craftsmen diamond lap all holes to size. Slot thickness is graduated to correspond with hole diameter to allow for maximum gripping circumference.

This permits work to be held rigidly and true without marring. Compare the enlarged view of a Levin *true precision* No. 1 chuck at left with the ordinary No. 1 chuck at right.

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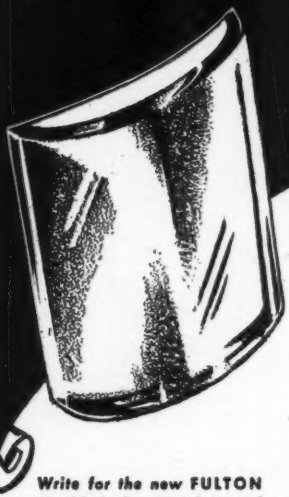

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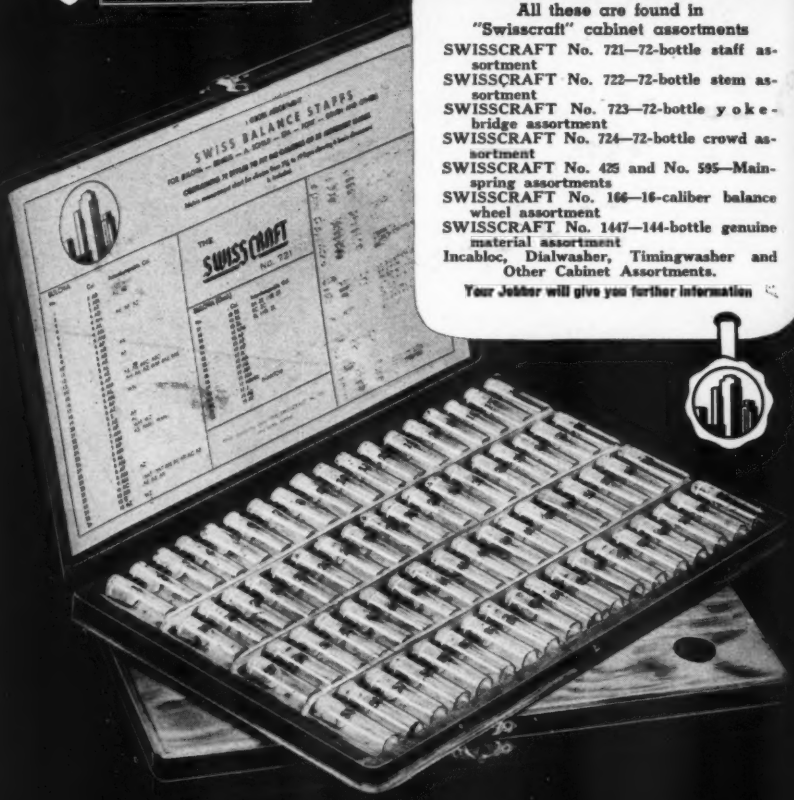

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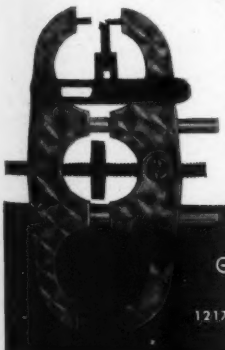

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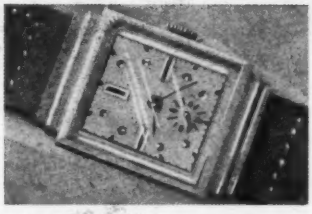
Watertight 17 jewel Swiss watch, sweep second hand, luminous dial, incabloc, shock protected, anti-magnetic, attractively strapped. In yellow rolled gold top, steel back, $17.75.



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2. ABSORBED VIBRATION
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allows correct speed setting that stays set at any speed required.

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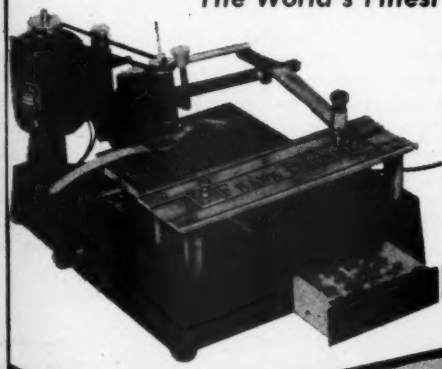

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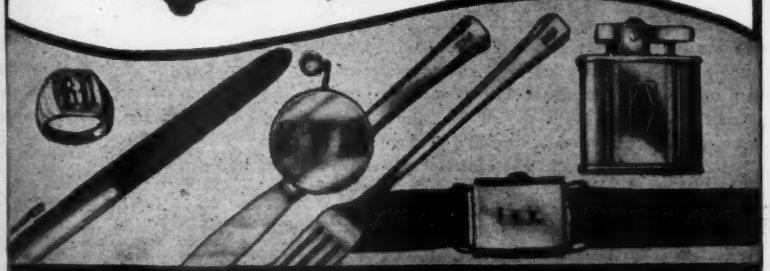

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HIGH QUALITY
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4 DIFFERENT PUNCH AND
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NOW YOU can get a staking tool that will do your jobs quickly, easily and **at very low cost.** The LITTLE GIANT is like the famed MOSELEY in general appearance and construction and has a baked enamel gun-metal finish. It is designed so all punches can be reversed, inserted in frame and used as stumps. This makes a more versatile tool and can be used on more jobs. Frame is cast in one piece and relieved so punches can be easily inserted and removed . . . so any watch parts driven out through the die plate drop clear of frame. Punch guide has a friction sleeve which holds punches in any position. The heavy die plate, easily locked in position, is made of the toughest alloy steel known to science and correctly hardened to give many years of service. The die plate has 26 holes to accommodate all modern watches from smallest to largest. Punches are correctly gauged and graduated . . . you are assured of the right punches in the right combinations. **Punches are uniformly hardened on a specially constructed machine costing thousands of dollars.** Faces of punches are lapped and polished to a smooth finish . . . punches are numbered for quick selection of the right punch. Punches are inserted at an angle in the plastic block holder so you can see the right punch without stretching or standing. Tool comes complete in an attractive mahogany finished wood case.

The LITTLE GIANT Staking Tool **is not made for a price** like so many cheap tools on the market today. It is made to answer the demand for a **Low Cost** Staking Tool of **High Quality.** So if your watchmaking requirements do not call for the more complete MOSELEY or WATCH-CRAFT, the LITTLE GIANT is the perfect tool for you.

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$24.50

24 PUNCHES
4 STUMPS

Punches	Stumps	Price
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Punch guide has Friction Sleeve which holds punches in any position.

Heavy Die Plate of toughest alloy steel, correctly hardened for years of service.

Punches can be reversed, inserted and used as stumps. Punches uniformly hardened on special machine costing thousands of dollars.

Frame cast in one piece and relieved so punches can be easily inserted and removed . . . so watch parts driven out through die plate drop clear of frame.

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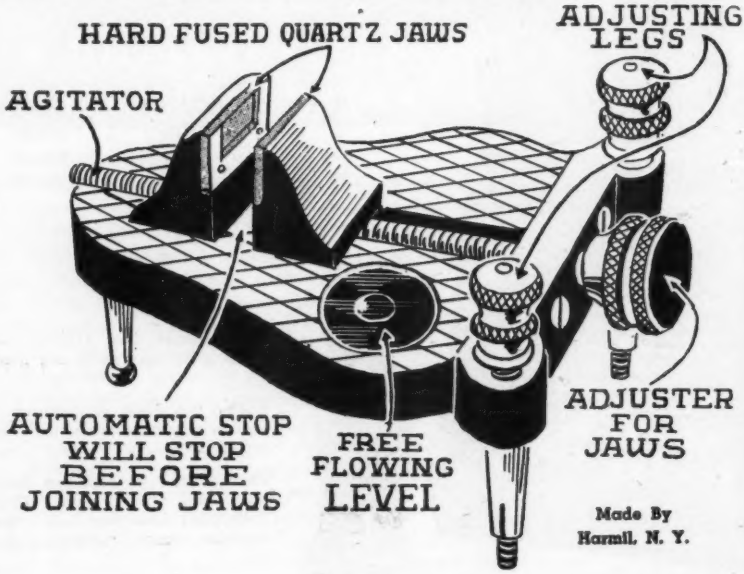

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Substantial saving is offered when complete outfit of tools and jewels are purchased.

STANDARD TOOL WITH ATTACHMENTS AS ILLUSTRATED.....Price **$49.50**

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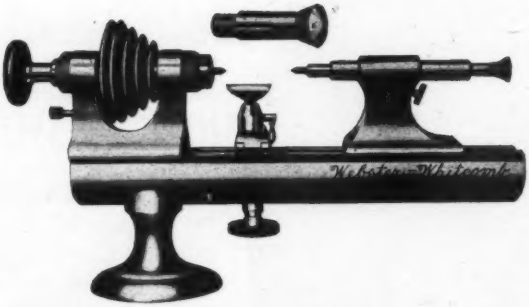

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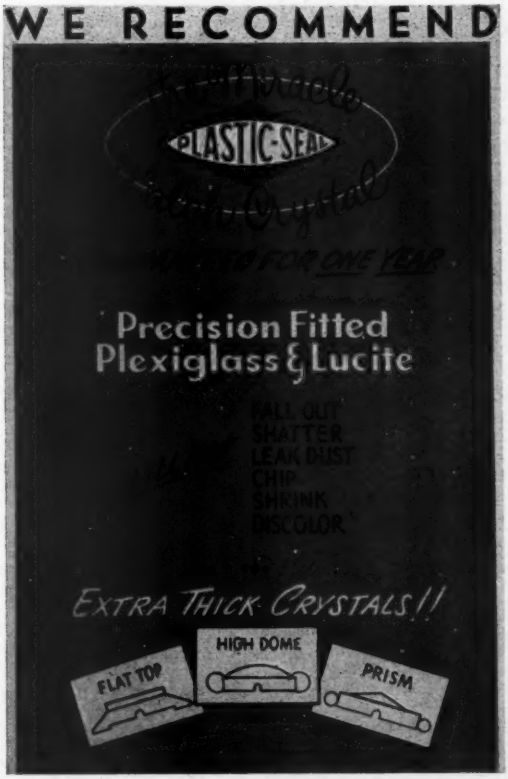

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The American horologist *and* jeweler Incorporating Horology

Volume 14 September, 1947 No. 9

UHAA Aims and Ideals

United Horological Association of America, the largest horological group in America, represented by its official publication, the American Horologist & Jeweler, works and speaks for almost 20,000 watchmakers. Basically it aims at bringing together for mutual benefit the men and women who are in the same field of endeavor. Through its many varied activities, programs, and services, the U.H.A.A. offers unlimited possibilities to watchmakers for raising the individual and collective standards from the recent horological school graduate to the most skilled craftsman, through a united front, with united action!

Horologists, notably non-gregarious and lonely fellows, can, through annual conventions, periodic state conferences, clinics and regular guild meetings, as well as through a constant flow of correspondence, receive inspiration and stimulation for improvement. Confining as his work is, fraternizing with "kindred minds," exchanging ideas, reading Association literature and publications, can all be of assistance in the individual's drive for improvement and security for the future.

Activity NOW is the only answer to the many problems that confront our profession. Registration, a perennial issue since the year of our founding, can only be obtained through united, concerted action! Public relations is a tremendous post-war problem. The watchmaker's present relationship to the public is hazy, undefined, and rather unfavorable. Our Association must sell the public on regular periodic watch inspection and repair, and on the general high moral and ethical level of the average watchmaker. We face a tremendous eduactional task in the thousands of new school graduates flooding our profession.

Alone the watchmaker is little more than an isolated repairman —small and unimportant. He finds himself unable to make any impression at all on the extremely vital problems threatening his present livelihood and future, but together in association with his fellow horologists, he can face and conquer them all. He knows the meaning of the common challenge "United We Stand."

What Do I Get Out Of U. H. A. A. . . . ?

1. **Membership cards** and **Membership certificates** are issued to each member of U.H.A.A. The cards of wallet size, are useful as identification, when traveling, and prestige in watchmaking circles. The attractively designed certificates are to be framed and hung near the watchmaker's bench, telling the world that this member is not an amateur standing alone, but a professional of the top rank, united in an organization of thousands like him.

2. **Beautifully engraved plaques** in color of the U.H.A.A. are available to members for use in their stores. These emblems tell the public that the watchmaker they are doing business with is a competent craftsman, united with thousands of his fellow workers for mutual benefit, improvement, and service to the community.

3. **Official publication** of the U.H.A.A. goes to all of the members by mail. The U.H.A.A. News Letter, an informal, personal type of publication, brings news of individual members and guilds, offering exchange of ideas and items of mutual benefit, tips for the members, and inside information of the matters of vital interest facing our association. The official U.H.A.A magazine, the American Horologist & Jeweler, is the leading publication in its field, and has thousands of subscribers outside its membership.

4. **Free Information Service.** The executive secretary's office and the official publication conscientiously try to answer every letter submitted to them. Thousands of questions are received every year requesting information from where to receive material to what makes a clock run. Each member is entitled to courteous answers to his questions.

5. **Educational Material.** It is planned to make your National office a repository for slides and films to be used by interested member groups. Appropriations for this purpose have already been made. It is hoped that additional material, as well as a series of planned Guild programs—complete with visual, auditory, and printed material—will soon be made available to the Association.

6. **A Library** of rare, valuable and exclusive technical books is kept at the office of the National Executive Secretary, O. R. Hagans, 226 Sixteenth Street, Denver, Colorado. These are available to members and may be borrowed by writing to Secretary Hagans.

7. **Rosters** of U.H.A.A. Guilds, their Officers and their addresses are printed each year, and are available without cost to U.H.A.A. members. The roster serves as a constant reference for maintaining mail contact with other members. It also serves to give members valuable contacts in various cities and towns when traveling, for fellow Association members have a warm spirit of friendship and keen sense of hospitality.

8. **Annual Convention** is the high point of each year's Association activity. Top-notch speakers, open forums, and direct fellowship with men and women "in the same boat" bring great benefit to those who participate. Contacts and acquaintances made at these gatherings prove of endless value in coming years. The break in monotony with a chance to "get away" for a few days serves as a refresher and inspiration to the creative watchmaker.

United Horological Association of America
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9. **State Meetings** are an annual affair in most states. Similar in many respects to the national meeting, State conventions offer an opportunity to deal more specifically with the problems facing our profession. Most state activity at the present time is to secure registration. In states which already have legislation, constant vigilance is needed to see that it is properly administered.

10. **Guild Meetings,** of course, are the foundation of values offered to U.H.A.A. members. Usually arranged every month, these gatherings see the local members transact their joint business, elect their own officers, plan their own educational programs, choose their own speakers and stage dinner meetings. This is the individual member's place to start in gaining national recognition in the watchmaking-jewelry profession. Being active in the local breeds opportunities in the state and then in the national sphere of the watchmaking and jewelry world. Here, too, is the main contact, discussion of problems and exchange of ideas.

11. **Industry Representation.** Your national office is called on almost daily by a governmental agency or authority, various commercial enterprises, and other associations for assistance, advice, or aid in the many different programs in which our profession has an interest. While the benefits from much of this activity do not immediately accure, or even appear visible to the individual watchmaker, they have a wide effect, and over a period of time will mean the difference between prosperity and $1.00 watch repairers in the industry. Your support is your insurance.

12. **"What You Put Into It,"** then is the real answer to "What do I get out of U.H.A.A.?" Besides the tangible things such as emblems, membership cards, certificates, educational and informational material, library services, roster and plaques, there is the open unlimited field of intangible possibilities at conventions, state and Guild meetings and clinics with open offices in all. It is only through such a getting-together of fellow workers that all these benefits are made possible. Joining the U.H.A.A. is the first step which hundreds and thousands have already taken. You are most WELCOME to obtain these benefits for yourself.

There is a Guild Near You!

If there is no guild in your immediate vicinity (within 50 miles) you are invited to submit your application or inquiries regarding U.H.A.A. membership to the State secretary. If there is no organization listed in your State, fill out and mail the coupon below to the office of Orville R. Hagans, National Executive Secretary, 226-228 16th Street, Denver 2, Colorado.

Dictionary of Gems and Gemology

With the recent printing of third edition of the DICTIONARY OF GEMS & GEMOLOGY, published by the Gemological Institute of America, Los Angeles, a total of 7,100 copies have been released since the first printing early in 1945.

Compiled by Robert M. Shipley, former retail jeweler who founded th G.I.A. in 1931 as an institution devoted to the education of the jeweler for the protection of the public, the book is the only one of its kind in America.

Years were spent by Robert Shipley in producing the dictionary which contains a glossary of more than 4,000 English and foreign words, terms, and abbreviations which may be encountered in English literature or in the gem, jewelry, or art trades. Its all-inclusive subject matter, compiled in alphabetical dictionary form, has been so helpful to jewelers and students of gemology that it has come to be regarded in the past two years as an authority on gemological nomenclature.

Other books published by the Gemological Institute of America during the current year include the first edition of HANDBOOK of GEM IDENTIFICATION by Richard T. Liddicoat, Jr., to be released August 15, GEM ACCENTS AND HARMONIES, and Shipley's JEWELERS POCKET REFERENCE BOOK, which will soon go into its second edition.

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Open Letter to Non-Members of U.H.A.A.

DEAR FRIEND:

September has seen the United Horological Association of America once again renew its efforts in the field of watchmaking, at its Fourteenth Anniversary convention, held in conjunction with the National Association of Horological Schools, at the Hotel Charlotte, Charlotte, N. C., September 11, 12, 13, and 14. Members and non-members attending were offered the opportunity to unite in helping to build a greater association in the years to come.

In view of the fact that both the U.H.A.A. and N.A.H.S. are concentrating their efforts toward even greater achievement than in the past, it seems only fitting that this convention should have keynoted the theme, "GREATER MEMBERSHIP ENABLES GREATER ACHIEVEMENT," and by the same token it seems only proper that the American Horologist & Jeweler, which is the official voice of the ever-growing national association, should continue to strive to point out the many benefits of which any non-members may avail themselves through the medium of membership in an organization whose goal it is to elevate the standards of their chosen profession.

In presenting this special U.H.A.A.-N.A.H.S. Convention Edition of the American Horologist & Jeweler, we hope to inspire each non-member to seriously consider membership, and to illustrate the ways in which he, as a non-member may help to make the watchmaking profession the most highly respected in the world today.

At a special convention meeting, held Friday, September 12, members and non-members alike were invited to participate in an Open Forum which was presided over by Orville R. Hagans, national executive secretary of both the U.H.A.A. and N.A.H.S. At this Open Forum, those attending were cordially requested to "take down their hair," so to speak, and to present for discussion, the problems which face the watchmaker of today.

The prime objective of the U.H.A.A. has been, and always will be, to promote legal registration throughout the country. Registration remains each and every watchmaker's assurance that he will not be forced to compete in any way, shape or form with incompetent members of the trade, who offer so little to the public at a price far below what the competent craftsman is justified in charging for his services. True, there is much opposition to registration from many sides, but when registration is defined it boils down to nothing less than sheer human decency. It merely asks that those persons entering the field of watchmaking, be called upon to prove that they actually have the ability to repair a watch. Ask yourself this question: "What would the world in which we live be like if there were no Pure Food and Drug Laws to protect us?" Doesn't it come within the bounds of pure and simple logic that we, the consumer, have an absolute right to know the standard and quality of the food we are eating—the medicine we are taking? Wouldn't our blood run cold at the very thought of consuming medicine which was prepared by a wholly incompetent doctor or pharmacist—food which was prepared in an unsanitary, incompetent factory?

So also the public demands and deserves the same level of treatment when it brings a watch to a repair shop. It has the RIGHT to demand that the person who fixes the watch is at least competent and skilled. Toward this goal the U.H.A.A. and N.A.H.S. continue to march in their fight for registration. The U.H.A.A. is concentrating its efforts toward improving the watchmaking profession as it exists today; the N.A.H.S. is doing everything within its power to create competency in the future—by showing the student of today, the watchmaker of tomorrow, the way to better methods and increased achievement.

We are reminded of the man who was running for the office of Mayor in a small town. One night a rally was scheduled at which this man was to speak, and for hours he expounded upon the many virtues he possessed. Nearly every sentence he uttered was punctuated by a frantic and wild ovation from the crowd. But the trouble was that each person attending the rally had already made up his mind to vote for this man even before attending the meeting. As this candidate mopped the sweat from his brow, following the meeting, he commented to one of his men, "We've made a great deal of headway tonight! Did you ever hear such an ovation?"

His man replied sadly, "But what good does it do to tell persons who are already convinced? We didn't reach one person tonight who's planning NOT to vote for you!"

Thus, the objective of the Fourteenth Anniversary convention of the U.H.A.A. and N.A.H.S. in Charlotte, N. C. this month was to reach non-members—to show them vividly how they will benefit from membership—to reach those persons who know little of the association's activities—or persons who possess false conceptions of its workings. These associations have taken a firm resolve to maintain and strengthen their drive for memberhip in the months and years to come.

The U.H.A.A. wants YOU as a member—it needs YOU as a member. GREATER MEMBERSHIP ENABLES GREATER ACHIEVEMENT!

Cordially,

THE EDITOR.

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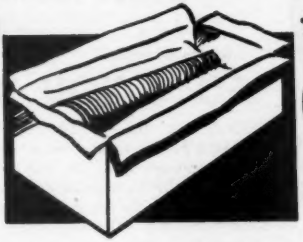

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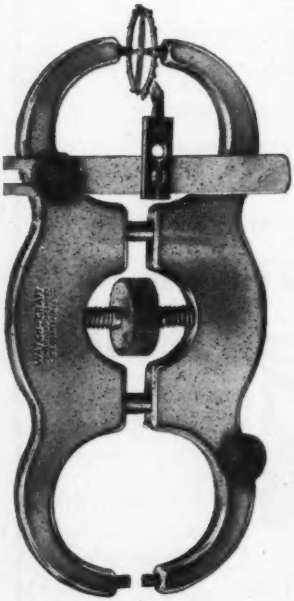

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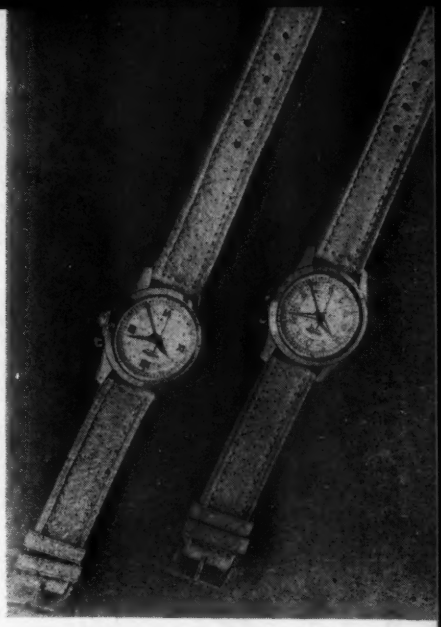

Pictured is the stainless steel cased Vulcain Cricket with radium dial. The alarm wrist watch at right is in 14k gold with raised gold numerals and gold hands.

Vulcain Cricket

NEW YORK—Bernard S. Lippman, president of the Vulcain Watch Co., Inc., has announced the world premiere of the Vulcain "Cricket," the first completely perfected alarm wrist watch. This new Vulcain timepiece is the only alarm wrist watch ever to be made available for wide distribution to the American market.

The initial shipment of Vulcain Crickets are being distributed to authorized Vulcain agencies in principal cities from coast to coast. Delivery to present dealers and a few selected new ones is being coordinated so that the jewelers will get the full benefit of the extensive advertising and publicity program that has been planned for the introduction of this revolutionary new watch by Vulcain.

Five years of continuous research and experimentation were spent by the technicians of the world-famous Vulcain watch factory at La Chaux de Fonds, Switzerland, said Mr. Lippan. During this period the development of the alarm was a closely guarded secret. A handful of men at the factory and only Vulcain's principals in this country and a few executives of their advertising agency knew anything about the work.

The long experimentation was necessary because the principal problem to be overcome was one that had always stumped expert watchmakers the world over. This problem was the difficulty of placing the delicate mechanisms of a precision watch and that of an alarm, too, in a thin, styled wrist watch case. Another difficulty was making the sound sufficiently audible to command attention. Mr. Lippman said that when he was in Switzerland a few months ago the number of models he saw that had been discarded was tremendous. Over and over again a new

(Please turn to Page 124)

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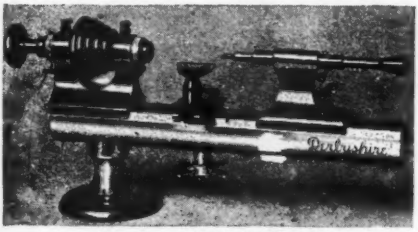

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Jewelry Fair Camera Highlights

An estimated 10,000 persons were at the opening of the 1947 National Association of Credit Jewelers convention and the National Jewelry Fair, held July 28 at Chicago's Hotels Stevens and Congress.

Nearly 300 exhibitors displayed every imaginable product and service of value to the jewelry industry, crowding the two mammoth hotels.

Shown on pages 62 and 63 are a small portion of the many exhibits which helped to make this Jewelry Fair of such tremendous interest and value to the Jeweler.

1. Smiling Bulova representatives proudly exhibit their product to a small fraction of the mammoth crowd which passed their booth during the four-day convention.

2. The Henry Paulson & company exhibit. This company's many products, among them the Time-O-Graph Watch Rating machine, proved to be of great interest to those attending the Fair.

3. Featuring a new device, M. R. Schnair & company booth displayed the Di-Monop-Tic counter-window combination.

4. The New Hermes portable engraving machine, shown by New Hermes, Inc. engravers on jewelry, silver, flatware, fountain pens, etc. in a matter of seconds.

5. Louis Aisenstein & Bros., Inc., New York, displayed the Mido Multifor and Medana watches to jewelers from their wide line.

6. Frinko Products, Chicago, displayed a wide variety of attractive merchandise.

7. Always an outstanding exhibit at any show, the Elgin National Watch company was no exception at Chicago. Showing a wide range of watches in many styles, Elgin attracted many visitors.

8. The Rensie Watch company display highlighted its product with the slogan "Exquisite as America's Beauties."

9. Under glass is the Waltham Watch company's large model escapement. Always fascinating, this exhibit stopped every passer-by at least once.

10. Ultra-modern displays set off Ollendorff Watch company's Gotham watch to good advantage.

11. Display maker, Edwin Freed, demonstrated the versatility of his displays by showing every kind of merchandise.

12. Arranged for comfort, the Gruen Watch company display featured the "Precision Watch" in dozens of extraordinary beautiful cases and styles.

13. New Haven clocks and watches were presented for the approval of jewelers at the Fair.

14. The Hamilton Watch company display drew throngs of attentive and interesting visitors.

15. WatchMaster representatives show their approval as publisher Hagans congratulated President Charles Fetter on the American Time Products exhibit.

16. Perennial Charlie Purdom points with pride to the special WatchMaster created for his demonstration.

1
BULOVA
2
M. R. Schnair & Co.
3
COMBINATION
4
NEW HERMES
Portable
5
6
ELGIN
7
8

9
10
Ollendorff Watch Co. Inc.
11
Edwin Freed
12
GRUEN
13
NEW HAVEN
CLOCKS & WATCHES
14
AMERICAN TIME WATCH
HAMILTON
15
AMERICAN TIME PRODUCTS
16

ANRJA Convention + + +

An all-time largest exhibition of jewelry and jewelry store merchandise with no fewer than 285 exhibitors as compared with 229 last year, marked the opening of the 42nd annual convention and trade show of the American National Retail Jewelers association Monday, August 11 at New York's Waldorf-Astoria Hotel.

Durward Howes

Mayor O'Dwyer delivered an address of welcome at the opening convention session. Durward Howes, president of the association and proprietor of a chain of jewelry stores in the Los Angeles area, delivered his convention address. Frank W. Lovejoy, sales manager of Socony-Vacuum Oil Co., Inc., delivered a talk entitled, "If I Were You."

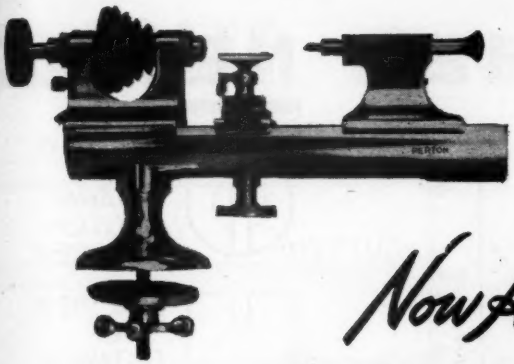
On Wednesday morning, John A. Danaher, former U. S. Senator from Connecticut, representing the Jewelry Industry Tax Committee in Washington, discussed "Taxation, with Special Reference to the Jewelry Excise Tax." Dr. Paul H. Nystrom, president of the Limited Varieties association and Professor of Marketing at Columbia university, talked on "Retailing and Legislation," Henry L. Jacobson, of Jacobson Bros., New York, spoke on "Diamonds." The question of "Research Work—Is It Time to Resume?" discussed by Tom Lilley, Assistant Director of Research of the Harvard Graduate School of Business.

A jewelry fashion show, under the auspices of the Jewelry Industry Council, with Miss June Hamilton Rhodes in charge, was held at the Hotel Plaza Wednesday at 4:00 p. m. and 9:00 p. m. Exhibits were open daily from 9:00 a. m. to 9:00 p. m. and until 1:00 p. m. Thursday.

ANRJA officers for 1948 were elected at the 42nd annual convention and trade show held August 11, at the Waldorf-Astoria hotel, New York City. They were as follows: Maurice Adelsheim, president; Kenneth I. Van Cott, vice-president, Northeastern region; Paul E. Morrison, vice-president, Central region; Harry L. Carter, vice-president, Northwestern region; B. C. Clark, vice-president, Southwestern region; Arnold Schiffman, vice-president, Southeastern region; and A. W. Molin, vice-president, Pacific region.

Charles T. Evans and Hoyt T. Purvis were reelected secretary and treasurer respectively.

W. Waters Schwab



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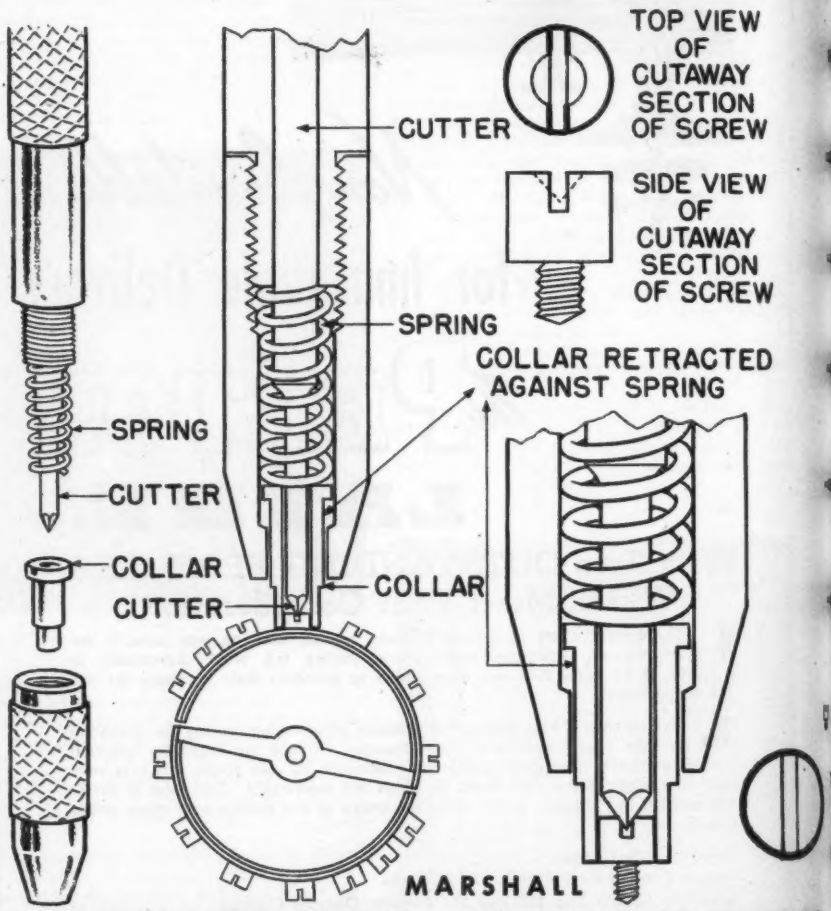

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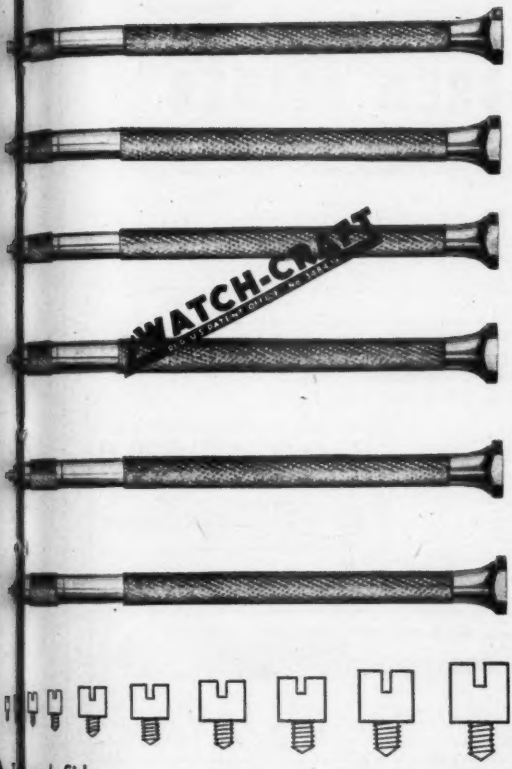

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Reduce Balance Screw Weight in half the time without removing screw from balance wheel. No marring of screw or balance wheel. The revolutionary new method of cutting balance screws . . . safely and quickly.

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Top and Side Views of Uncut Balance Screw

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These new cutters will revolutionize cutting of balance screws for timing or poising . . . and do it quickly and safely. You do not remove the screw from the balance wheel. You simply select a collar which fits over the balance screw to hold it in position. The collar retracts against the spring and automatically centers the cutter. Then you turn the handle just as you would a screw driver. The 3 bladed cutter countersinks (hollows out) the center of the top of the screw. (See illustration for complete explanation).

With this set, you get 6 different sized collars (tests have proved that 6 are necessary to cover the complete range of balance screw sizes). And these tools remain assembled . . . there's no shifting of collars or cutters from one tool to another. In an amazingly short time, you can change the weight from 1 to 5 minutes per day on each pair of screws. AND YOU DO IT QUICKLY AND SAFELY . . . IN LESS THAN HALF THE USUAL TIME. For complete information about this new set of WATCH-CRAFT Balance Screw Cutters, write to C. & E. Marshall Co.

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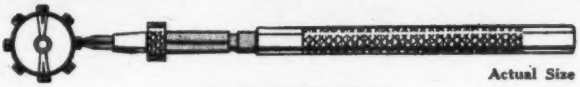

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LMC Set of 8 Chuck Screw Drivers Complete

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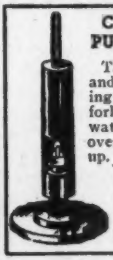

CANNON PINION PUNCH WITH BASE

This tool has a punch and stumps for stretching the guard pin in forks for double roller watches. Place the fork over stump with slot up. Then place punch in slot of fork and give a little tap with hammer, which will accomplish the purpose required.

A Practical Course of Instruction in The Science of Horology

By Orville R. Hagans and D. L. Thompson

Clock Repairing—Lesson 7

(Continued from August, 1947)

Fig. 1, Plate 10, shows such a curve and its geometrical development PS is the plane surface; R is a circle, called a roller; and the heavy black curved line, stretching from 12 to 12 on the line PS, is the cycloid traced by point 12 on the roller, as it makes one revolution along the line PS. Any other point on the roller, as 1, 2, 3, etc., will describe the same curve, for any revolution of the roller.

In the development of the curve shown, the circumference of the roller is to be divided into a number of equal spaces, 12 being a convenient number, and numbered as shown. A perpendicular is then drawn from the center of the roller to a tangent line. PS, and marked 12′-12. The spaces 1, 2, 3, etc. on the line PS are then marked off equal to the circumferential distances between 12 and 1, 1 and 2, 2 and 3, etc. on the roller, and numbered. A broken line, running through the center of the roller and parallel to the line PS, is now drawn and the perpendiculars 1-1, 2-2, 3-3′, etc. erected, which divides the center line into the same number of equal spaces as that of the line PS, and marks the successive centers of the roller, for one revolution. The other broken lines are then drawn through the points 11-1, 10-2, 9-3, 8-4, 7-5, and 6, on the roller, parallel to the line PS, the line through the points 93 coinciding with the center line in this construction.

Having drawn the roller; the parallel lines; the perpendiculars; and marked them as shown, the curved traced by any of the marked points on the roller, as it rolls along the line PS, can now be plotted.

From point 1′, as a center, an arc of a circle is drawn from point 1 on the line PS to the parallel line 11-1. The roller has then made 1/12 of a revolution, and point 1 on the roller will occupy a position coincident with point 1 on the line PS. Point 12 on the roller will then occupy a position at the intersection of the arc of a circle just drawn and the line 11-1. A dot may be made at this intersection, as shown.

Arcs of circles, having their centers at 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12′ on the line PS to the parallel lines bearing corresponding numbers, and the intersections marked, as shown. A curved line drawn through these marked points of intersection of the arcs of circles and the parallel lines will form the cycloid shown.

EPICYCLOIDAL TEETH

The epicycloidal form of tooth is formed by a geometrical curve called an epicycloid, meaning above a circle, and which is a curve traced by a point on a circle rolling, without slipping, on the convex surface of another circle.

Fig. 2 shows a wheel of 72 teeth driving a pinion of 12 leaves, and the development of the epicycloidal form of the wheel teeth. In a pinion of 12 leaves, the pitch is 30°, 12° of which is reserved for the width of the leaf and 18° for the space between two leaves. As the ratio of wheel teeth to pinion leaves is 6 to 1, there are 6 teeth on the wheel to 1 on the pinion, or for 30° of the circumference of the wheel there are 6 teeth. Therefore, for one revolution of the pinion, the wheel will turn through an angle of 60° or 1/6 of a revolution.

For clock and watch trains, the general practice has been to use the epicycloidal form of wheel teeth gearing with pinion leaves having radial flanks and semi-circular addenda, as

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The right size? The best steel? Special features? Protective packing? In this Nu-Vigor Assortment you'll find *everything* . . . every size for every make and model . . . every spring hand made, hand polished, hand finished, with precision-rounded edges and pre-formed barrel hook . . . every spring INDIVIDUALLY INSPECTED and scientifically double-packed in a sealed envelope with interchangeable models marked right on the envelope. The maroon-finished two-drawer cabinet is standard size for stacking . . . each section has adjustable back-stop . . . clever index system puts the spring you want right at your fingertips . . . and there is plenty of room for additional numbers in the future. Ask your wholesaler.

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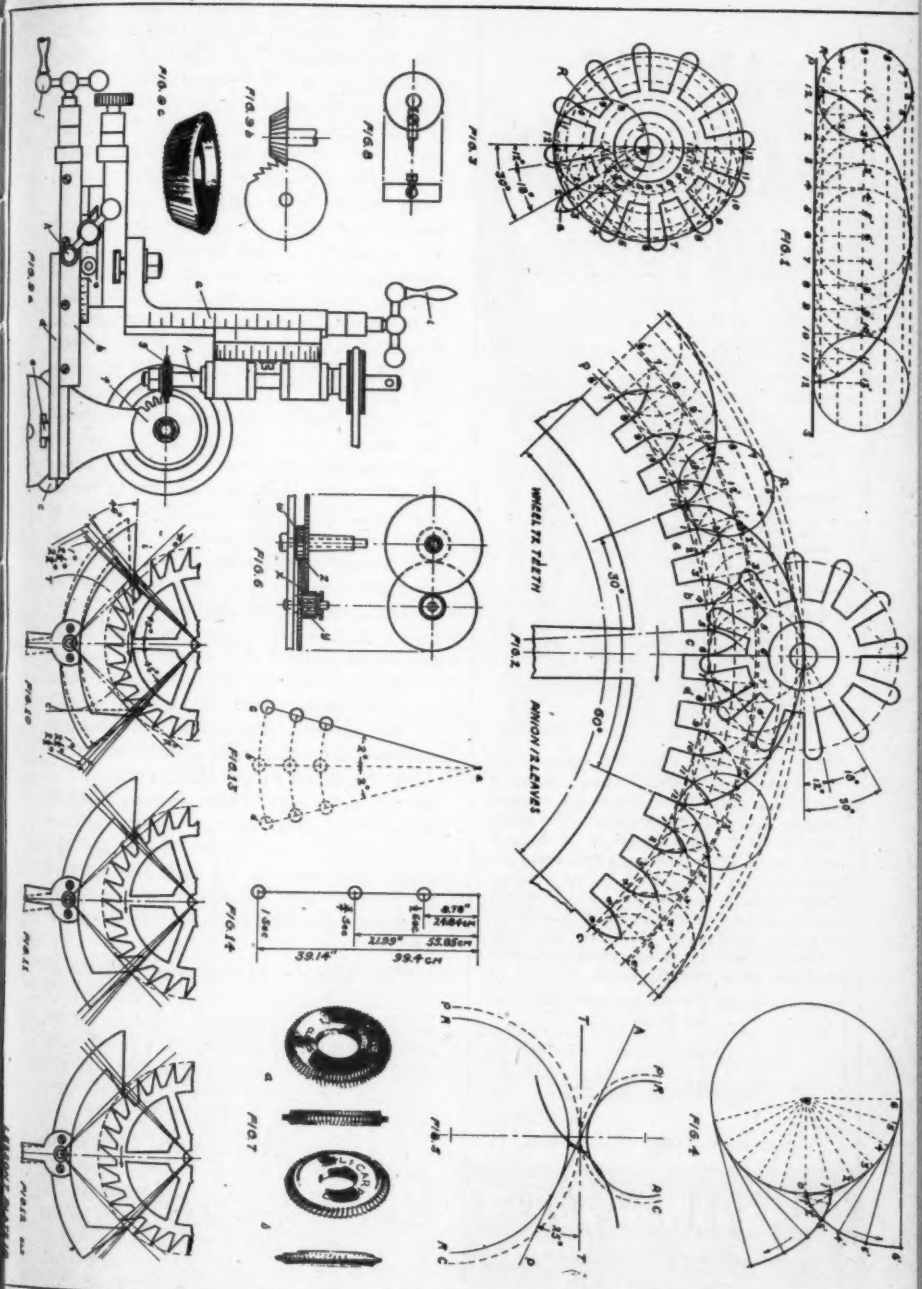
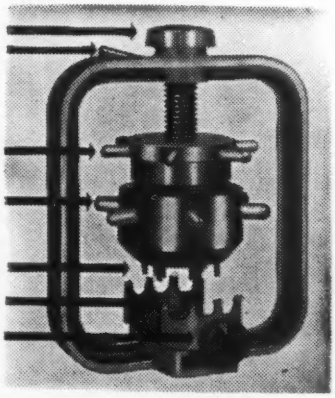


FIG. 1
FIG. 2
WHEEL TO TEETH
PINION PILLARS
FIG. 3
FIG. 4
FIG. 5
FIG. 6
FIG. 7
FIG. 8
FIG. 9a
FIG. 9b
FIG. 9c
FIG. 10
FIG. 11
FIG. 12
FIG. 13
FIG. 14
39.14"
39.4 CM
55.85 cm
21.99"
21.64 cm
8.78"
1.5 cm
LARGEST PINION

ATOMIC WATERPROOF WRENCH

The tool that will do the job!



Made by watchmaker. Will open cases when others can't. No slipping or scratching. No worry in holding the watch. Simple, sturdy, adjustable. All sizes, shapes. Can use 2 prongs, 3, 4, 5, or 6 at a time. The tool no watchmaker or jewelry store can afford to be without. Guaranteed to do the job. The demand has been so great that we're now able to go on production. We are also able to cut the cost of manufacturing so that the new price is $7.97 f.o.b.

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shown in the figure. In this construction, the diameter of the roller, used in the development of the epicycloidal curve of the wheel teeth, is equal to the radius of the pitch circle of the pinion, the roller rolling on the pitch circle, PC, of the wheel, in the same manner as a roller rolling on a plane surface.

In Fig. 2, the roller, R, rolling on the pitch circle of the wheel, from point 12 to point 12, will describe the curve shown, which embraces 6 teeth of the wheel. Another revolution of the roller will describe a curve embracing another 6 teeth, and so on, around the wheel, until the roller returns to the starting point shown. If the roller is started at any other point on the pitch circle of the wheel, such as point 1, 2, 3, etc., it will describe the same curve embracing 6 teeth. For instance, if the roller is started at point 2, on PC, and rolled to the right, it will describe a curve that will form the left-side of the addendum of tooth *a*, and then, if it is started at Point 1, on PC, and rolled to the left, it will describe the curve that will form the right-side of the addendum of the tooth *a*, as shown by the broken lines running from points 1 and 2, on PC, to the broken line running through points 9-3 of the roller and concentric with the pitch circle of the wheel, PC. The point where these curves meet is called the apex of the tooth, and a circle, drawn from the center of the wheel and passing through the apex of the tooth, will describe the circumference, and the full diameter of the wheel.

That portion of the wheel tooth below the pitch circle, PC, is formed by a hypocycloid, meaning under a circle, which is a curve traced by a point on a circle rolling, without slipping, on the concave or inner surface of another circle, as shown in Fig. 3.

In a pinion having radial flanks, the diameter of the roller, used for the development of the hypocycloic, is equal to the radius of the pitch circle of the pinion, and a roller of the same diameter is used for the development of the curves of the addenda of the

teeth of the wheel to be used with the pinion, refer to Figs. 2 and 3. The roller used for the development of the flanks of the wheel teeth is equal to the radius of the pitch diameter of the wheel.

It will be seen that the roller, R, Fig. 3, in rolling on the concave surface of the pitch circle of the pinion, describes a straight line, which is radial to the pinion. A roller smaller than that shown in the figure would describe a CURVE which would pass to the right of the center of the pinion, when rolled in the direction shown. A larger roller would describe a CURVE that would pass to left of the center of the pinion, when rolled in the direction shown.

A smaller roller is seldom used as it makes the flanks of the pinion leaves too close together, which results in a thin and weak leaf. A larger roller is used when the leaves of the pinion are required to be strong and the play or back-lash of wheel and pinions kept to a minimum.

With a wheel having epicycloidal addenda driving a pinion having radial flanks, driving takes place on and after the line of centers, with a pinion of 12 leaves, and both before and after the line of centers, with a pinion of less than 12 leaves, Referring to Fig. 2, tooth *c* of the wheel has just relieved tooth *d* of the work of turning the pinion, both tooth *c* and tooth *d* being in contact with leaves of the pinion momentarily. With further turning of the wheel, tooth *c* assumes the position of tooth *d*, and tooth *b* takes the position of tooth *c*, at which time it contacts the leaf of the pinion on the line of centers, and takes up the work of turning the pinion. This is the ideal construction. With pinions of less than 12 leaves, the contact of tooth *c* with the pinion leaf would take place before the line of centers, which has been explained.

With a pinion of 12 leaves, the addenda could be left off entirely and the ends of the leaves finished off flat, or with a curve following the pitch circle,

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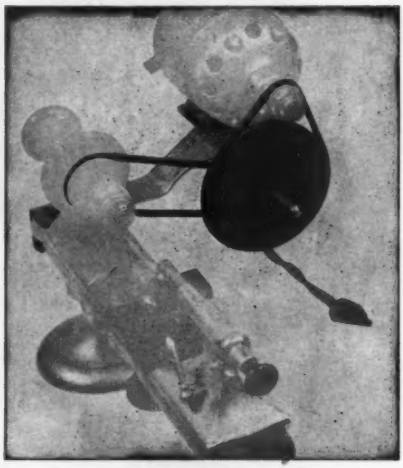

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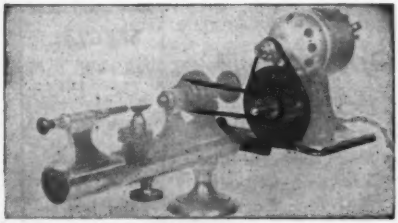
Mention size and make of motor when ordering this model.



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Will take any known motor without removing base. Sturdily built and very compact. Chrome plated. Belt can be used from motor to lathe (on either model) for high speed. They swing with the lathe. Makes added bench room. Sold by Material dealers everywhere. Complete with endless belts.

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and when used as a follower, it would work very well. However, when the pinion was used as a driver, the leaf of the pinion would not carry the tooth of the wheel far enough beyond the line of centers, and the next leaf would contact the next tooth of the wheel too far *before* the line of centers, which would result in a badly wearing action. It is for this reason that when a pinion is to be used as a driver the addenda of the leaves are given the form shown in Fig. 3 at *a*, which is the same epicycloidal form as that of the wheel teeth. This form of leaf remains in contact with the flank of the wheel tooth until the next leaf contacts a tooth of the wheel on the line of centers, or only slightly before reaching it, depending upon the number of leaves of the pinion.

Give the Ex-GI a Break

By Glen D. Meyer

Fellow Horologists and Friends:

I know what I wish to say, but not exactly how to start. I keep hearing fellow horologists ask, "What is going to become of these ex-G. I.'s who are now graduating from the various Horological schools?" I would like to suggest an answer to that if I may. Those of you who possibly can, please give them a break. They are not asking for charity, but simply a chance to prove themselves, and also to improve themselves. They haven't been taking these courses because it is a soft touch. If you think so, try keeping yourself on sixty dollars a month, or ninety dollars a month if you are married. In these times of high prices, it is indeed trying; therefore, they must have taken up our trade or profession because they like it, not for the government money involved. Probably there are some who think it is a get rich quick business, but I feel they are in a minority. You will usually find the ex-G. I.'s who graduate, are ready and willing to work on a percentage basis, and be paid according to their ability to produce. The ex-G. I. is mainly interested in becoming more proficient at the trade. However he does need the opportunity to earn enough to continue eating regularly and can generally do so if he is given the chance. I think you will also find there are some who have given part of their good health in the service of our country, and are no longer able to do the job they did before the war.

In the past fifteen or twenty years, too few young men have gone to Horological schools, or have apprenticed themselves for a period of four to six years to learn a trade

they found enjoyable after a few months. I think this was due, in the past, to the poor wage paid apprentices compared to the pay received in less skilled trades. It is also due to the question that invariably is asked: "How much experience do you have?" When a fellow says, "I have just graduated from Horological school," he is told, "You don't have enough experience, go get some experience, then come back." How can anyone get experience in the proper way if no one will give him a chance? I found that same question asked when I changed jobs after I had been an apprentice only a couple of years, during which time, I made from $2.50 to $8.00 per week. The gentleman who asked me that question, years ago, is our National president, John J. Nooyen. I told him that I only had a couple of years, but I surely did wish to earn more. He gave me that chance, and I am most grateful for it. The reason he gave me that chance was, as a young man, someone showed him every kindness when he was learning.

Ask yourself this question—didn't someone take considerable time to teach you, and give you a break, or did you learn with no help from anyone? These ex-G. I.'s have been given a good basic and theoretic knowledge of horology due to standards set up by our National association. With the proper chance they should be a boon to our trade.

The medical college graduate must serve as an interne before he can hang out his shingle. It is too much to ask of the horologist that he give some of his time to help a Horological graduate serve as an interne before he hangs out his shingle? He must still be guided in the proper manner, to make him a good practical bench man. It takes a long time for a watchmaker's eye to become trained to see the things that it should. A horological graduate's eye is still a little untrained. No matter how proficient you may be at the bench, just look at a watch through the eye you don't work with, then you see what I mean. I'm speaking to you fellows who use only one eye at the bench. I know one watchmaker who uses one eye in the morning, and the other in the afternoon. There must be others who do likewise. It still takes plenty of eye training, and only time, and a more skilled guiding eye can give you that. Taking a horological student under your wing is one way to cut down harmful competition. They are going to work on watches without your cooperation, if they can't do it with your help and guidance.

I think you will find most men at the bench are over 45. Now, that isn't old but it is time a fellow should be able to let up a bit and enjoy life.

Let me urge you again to give the next ex-G. I. horological graduate a break and help perpetuate the science of time.—Horology.

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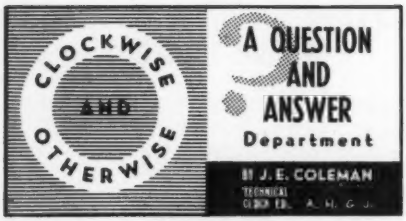


Mr. Coleman invites your questions. If your question requires a direct answer, please enclose a self-addressed, stamped envelope. It is impossible through correspondence to give valuations of antique timepieces, and questions of this nature cannot be answered.

Dear Mr. Coleman:

Will you kindly give me the address of a firm or firms where I might have some old pieces of silverplated ware repaired and replated?

I also have a clock made by S. E. Root, Bristol, Conn. It is in a wooden case with glass sides, front and back allowing the complete clock and calendar movement to be shown from all sides. The strike control wheel (the one regulating the number of strikes) has been damaged. Can you advise me as to where I might get this wheel or have it made?

Your help will be greatly appreciated.

Henry E. Reyer,
Pine Bluff, Arkansas.

Dear Mr. Reyer:

This is in reply to your inquiry relative to silver plating hollow ware, and count wheel for an S. E. Root, Bristol Conn., clock.

The Simmons Plating Works, 218-223 Pryer St., SW, Atlanta 3, Georgia can take care of your silver plating needs.

Send the old count-wheel from the S. E. Root clock to Paul E. Hoffman, 43-09 40th Street, Sunnyside, Long Island, New York and he will duplicate it for you. Incidently, did you know that the present "Veeder-Root Mfg. Co., one of the largest manufacturers of counting mechanisms in the world is the outgrowth of Samuel E. Root's clock shop?

J. E. Coleman.

Dear Mr. Coleman:

Have read with much interest your articles in the American Horologist & Jeweler. Keep them coming as they are really fine.

I would like some advice on a Watchmakers Lathe.

I am in the market for a good Watchmakers Lathe, and as there seems to be very little difference in price, I would like to buy one of the best. Having seen several of the new lathes, and talked to the watchmakers who use them, neither they nor I seemed very well satisfied with them. Prices seem high—although the price does not matter if the quality, service ability, etc. are there.

So I would appreciate the help of your wide experience in the handling and possession of fine tools.

Mr. J. W. Yeager,
Hunnington 1, West Va.

Dear Mr. Yeager:

You will find a number of good lathes advertised in the American Horologist & Jeweler. I feel perfectly safe in assuring you that you can rely upon any of them.

You can readily see that while any magazine likes to investigate the manufacturer's product to be sure it comes up to standard, on the other hand they must be equally as cautious not to discriminate when recommending them.

Before purchasing a lathe you should take into account just how you expect to use it. In other words, what will be your own special requirements. For quite a number of years I've been using a "Clements" of Waltham. My special reason for this choice was: First, the chucks are large (it chucks an 80 straight through); second, the bed swings to the side—a very desirable feature for heavier clock work.

J. E. Coleman.

Dear Mr. Coleman:

Your department "Clockwise and Otherwise" in the American Horologist & Jeweler is tops with me as I repair clocks only.

Would like to know the name and publisher of a good book on Clock Repairing.

Arch Knowlton,
Columbus 2, Ohio.

Dear Mr. Knowlton:

Possibly the best all round clock book on clock repairing would be "The Modern Clock" by Ward L. Goodrich (Hazelet & Walker, Chicago, 1905) which has long since been out of print. A few copies are still floating around.

You might run a small ad in the American Horologist & Jeweler, or write to some of the dealers who make a specialty of securing out-of-print books.

H. Birnbaum, 218 East 59th St., New York 22, New York advertises horological books, and might be able to get you a copy. Also suggest that you keep up with "A Practical Course of Instructions" O. R. Hagans and D. L. Thompson, now running in the American Horologist & Jeweler. It is just now reaching the clock section (I believe lesson No. 7 was in the June issue.) There are some good pointers on clocks in this series.

J. E. Coleman.

Dear Mr. Coleman:

Congratulations on your fine new column in the American Horologist & Jeweler. It's just what has been needed for a long time. Many men at the bench like myself, who work mostly on watches, do get called on to do a certain amount of clock work, and for them I'm sure your articles are of a big help.

I am writing to you at the suggestion of a

$1.25 @ 6¢ M. O. Fee. To watchmaking STUDENTS now in school
Students give home address for delivery. Name school now attending

More important to you than ever before! The competitive scramble is on!

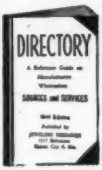
New 1947 Directory

$2.50 & 6c M. O. Fee

Of Wholesalers & Manufacturers
For Watch Makers and Jewelers
REFERENCE LIST—600 FIRMS

For Retail Jewelers & Watchmakers

CONTENTS OF DIRECTORY—Watches, Clocks, Silverware & Costume Jewelry Firms; General Jewelry, Diamonds, Compacts, Dresser Sets and Ring Firms; Lighters, Cameras and Pen Firms; Souvenirs, Novelties & Premium Goods Firms; Small Personal Leather Goods, Gifts for Parties & Mexican Novelty Gift Firms; Ceramic Figures and Art Glassware Firms; Novelty Plastic Gifts, Sporting Goods and Luggage Firms; Small Electrical Appliances, Lamps, Radio & Cutlery Firms; Watch Material and Tool Supply Firms; Jewelers' Supplies, Findings, Repairing, Window and Counter Display Firms; etc. New York, Los Angeles, and Chicago Wholesale Jewelry Houses. New England Manufacturing Jewelers and Silversmiths, Firms of Providence, R. I., etc.

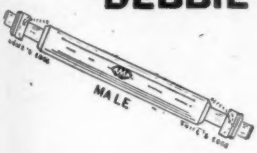


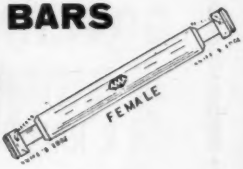
The Directory tells of a variety of firms that illustrate their items in circulars and catalogs.

No money accepted in advance—we send C.O.D. only. (Refund in 5 days if not pleased.)

The JEWELERS' RESEARCH, Dept. J. S. 1217 Baltimore, Kansas City 6, Mo.

"DEBBIE" DOUBLE FLANGE KNIFE EDGE SPRING BARS





6 & 12 COMPARTMENT WOOD BOXES
CONTENTS
OF ASSORTMENTS

Asst. No.	Style	Total Asst.	MALE SIZES 11/32	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	FEMALE SIZES 9/16	5/8	11/16	3/4	13/16	7/8	List Price
			DOUBLE FLANGE—2 M/M										DOUBLE FLANGE 2M/M						
115	Male	50				10	10	10	10	10									$2.25
125	Female	50											10	10	10	10	10		3.40
1110	M-F	100				10	10	10	10	10			10	10	10	10	10		5.50
1209	Male	90		10	10	10	10	10	10	10	10	10							3.85
			DOUBLE FLANGE—1½ M/M										DOUBLE FLANGE 1½ M/M						
135	Male	50				10	10	10	10	10									3.40
145	Female	50											10	10	10	10	10		4.25
1210	M-F	100				10	10	10	10	10			10	10	10	10	10		7.60
1309	Male	90		10	10	10	10	10	10	10	10	10							6.10
			KNIFE EDGE—2 M/M										KNIFE EDGE 2 M/M						
1112	M-F	72			6	6	6	6	6	6			6	6	6	6	6	6	4.80
1212	M-F	72	6			6	6	6	6	6			6	6	6	6	6	6	5.10
156	Male	72	12			12	12	12	12	12									4.20
166	Female	72											12	12	12	12	12	12	6.00
1312	M-F	144			12	12	12	12	12	12			12	12	12	12	12	12	9.60
1412	M-F	144	12			12	12	12	12	12			12	12	12	12	12	12	10.20
1310	Male	60	6	6	6	6	6	6	6	6	6	6							3.50
1410	Male	120	12	12	12	12	12	12	12	12	12	12							6.60
			KNIFE EDGE—1½ M/M										KNIFE EDGE 1½ M/M						
206	Male	120			12	12	12	12	12	12									6.00
226	Female	72											12	12	12	12	12	12	7.20
1812	M-F	144	12			12	12	12	12	12			12	12	12	12	12	12	13.70
1510	Male	60	6	6	6	6	6	6	6	6	6	6							5.25

REFILLS PRICE LIST

DOUBLE FLANGE—Per Doz.					KNIFE EDGE—Per Doz.						
MALE 2 M/M	FEMALE 2 M/M	MALE 1½ M/M	FEMALE 1½ M/M	MALE 1¼ M/M	MALE 2 M/M	MALE 11/32 2 M/M	FEMALE 2 M/M	MALE 1½ M/M	MALE 11/32 1½ M/M	FEMALE 1½ M/M	MALE 1¼ M/M
.50	.80	.80	1.00	1.00	.60	1.00	1.00	1.00	1.50	1.20	1.20

186 William Street **CREST SERVICE** New York 7, New York

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DEPT. C

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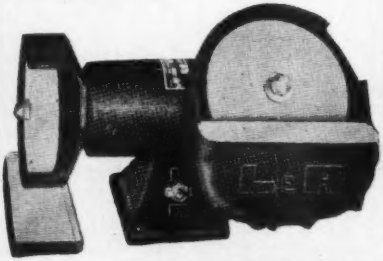
All solutions guaranteed to be in excellent condition. Minimum order 2 gallons —6 gallons, $11.00.

Jeweler's Tools & Supplies

Zenith Cleaning Machines

NEW!



$69.50

L & R CRYSTAL GRINDER

The new L & R Crystal Grinder features a low speed grinding wheel and a high speed felt buffing wheel—operating from a single, long-lasting motor.

Watch & Ring Boxes

Watch Maker's Benches

Leather Watch Straps

friend in the hope that perhaps you can help me.

Four years ago, just prior to going in the army, I purchased a fine mahogany hall clock case, complete with hammer and chime racks, hammers and nine chime tubes. Upon my return to civilian life I began an attempt to trace the original owners of the clock in the hope of finding out what had become of the movement, pendulum, and weights. However, I have reached a dead end on this course of action, and now desire getting any information you may have on how I can best go about getting a movement with 9x13 inch moon dial.

Do you know where I might possibly write to get such a movement, or one that would be suitable. An ad in the publication brought no results at all. If necessary I would undertake to make my own dial and hands, but do not have the facilities to make the entire movement.

Another question on my mind is that in the event a movement such as I seek is unavailable, where could I get complete plans for making such a clock.

Any help you can give me would be more than welcome, and I trust you can find time to answer.

Mr. F. Strothman,
Wheeling, W. Virginia.

Dr. Mr. Strothman:

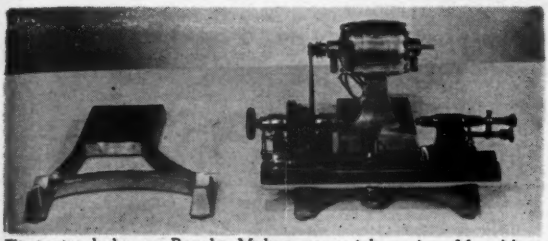
It is indeed a pleasure to learn that you enjoy our "Clockwise and Otherwise." In view of the fact that your advertisement brought no results, and knowing that in the past most of the supply of Grandfather movements came from Germany, I fear that we may not be of much help.

I have two chances, however, and suggest you writing to Mr. E. E. Karsen, The Herschede Hall Clock company, McMillan & Essex Place, Cincinnati 6, Ohio; or to Mr. Stewart Ralston, Hanson Clock Manufacturing company, 1220 Eleventh Street, Rockford, Illinois.

J. E. Coleman.

Watch, Stolen 25 Years, Returned

DETROIT—Attorney James E. Haggerty opened a package delivery to his office. Inside was a watch stolen from him in a holdup more than 25 years ago.



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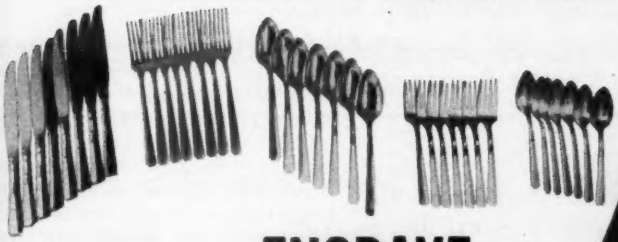
2422 27th St. C. D. BLAIR, MFG. JEWELER Lubbock, Texas

nh

52 FLATWARE PIECES



CAN YOU ENGRAVE THEM IN 20 MINUTES?

OF COURSE . . . WITH THE

NEW HERMES PORTABLE

NEW HERMES INC.,
13-19 UNIVERSITY PLACE
NEW YORK 3, N. Y.

See Page 43

WATCHMAKERS
$1500.00 Contest

Readers want to know what bench problems you have solved, what tools you have devised in order to make a particular job easier, etc.

In order to encourage you to send them in, a $1500.00 contest has been arranged. And, to make it more interesting, there shall be 3 monthly prizes; winners of such NOT to be excluded from final prizes.

CONDITIONS AND RULES

As articles are received, two copies will be made and each entry issued a number which shall appear with article so as to avoid any possibility of favoritism by Judges. All names shall appear at close of contest.

Articles shall appear at discretion of Judges, Chairman and Editor. All articles become property of THE AMERICAN HOROLOGIST & JEWELER and shall not be returned.

Now is the time to act. Send in one or a dozen articles, practical ideas, experiences, tools or unusual creations. Let's go! 838 prizes more may be added if interest demands.

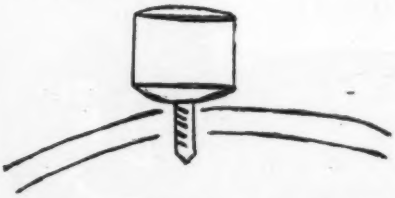
When sending articles in, mark them for "Contest" or they will not be included.

All drawings MUST be in black ink for reproduction purposes. Good drawings command greater attention.

March 1946 Contest Article Further Discussed

(Contest Article No. 259)

I am a student here at Elgin Watchmakers College, and I should like to enter the discussion of Article No. 258 in the March, 1946 Issue of the American Horologist.



Technically speaking, I think the contestant has a very fine point on this subject; and if I may be permitted to express my opinion, I have a suggestion to make. I think while we are making this change of the balance screw, we can make another that would eliminate another error he failed to mention, which I think is just as important and would help further in making a more efficient timepiece.

Change the counter of the screw which contacts the balance rim in the manner illustrated, so when the balance wheel rim expands and contracts with temperature changes, the balance screw will have less mass contacting the balance rim. Consequently, the balance rim will have less interference when making its adjustments.

Bushing and Centering Anvil

(Contest Article No. 260)

My contest entry is called a bushing and centering anvil for clock work of all kinds.

It is made out of a piece of ordinary cold rolled steel 2 1/2 to 2 3/4 inches long by 1/2 inch in diameter, "round".

At one end are filed two flat sides to about 5/16 inch thick and up the body for 3/4 inch. This flat part is for putting in a moderate size bench vise. The body extends two inches above the vise. The reason for this two inches above the vise is to get the necessary height to celar any clock pillars of any kind of plate, so that the pillars will not

"SCIENTIFIC TIMING"

By Charles Purdom

Treats every phase of its subject. Among the most important are those dealing with, Escapement Functions, Balance Wheel, The Hairspring, The Hairspring Dynamic, Balance Assembly Dynamic, Beat Phase, Regular Pin Factors, and Needling the Hairspring.

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The **VIGOR** LATHE MOTOR

Precision crafted for stronger, smoother and quieter operation—designed for long hard service, rated 1/15 horse power at 5,000 RPM, 115 volts, AC-DC. This sturdily built unit is mounted on a wide pedestal and equipped with a 3 step pulley, reversing switch, and foot rheostat.—$30.00

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- 6 Genuine Rubies
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Karelin Watch Service

Time Specialists

Watch Repairs For The Trade

116 Nassau St. New York 7, N. Y.

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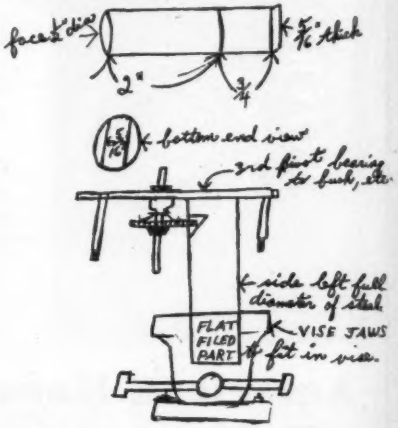
come in contact with any part of your vise.

The top may be dead flat or have a very very slight crown. This anvil can be made for only a few cents, and when you have once used it for clock work, I think you will feel as I do and not want to be without it.



When working with, say alarm clocks or boudoir clocks, and do not wish to take the centre wheel from its plate and want to bush the third pivot bearing, a notch can be cut out of the side for the wheel to go into, so as to get a larger bearing surface underneath the plate.

If you wish, you could make up one of these with the side piece and two or three with the side piece filled out. Then you could have a set of all your needs. I make all my own bushings, using from 1/8 to 3/16 inch diameter round brass welding rods for material.

Tightening Cannon Pinions

(Contest Article No. 261)

A quick, easy, and efficient way I have found for tightening cannon pinions is as follows:

I take a small cutting plier and, holding it with three fingers on one side, the index finger in the middle and my thumb on the other side, I place the cannon pinion in the jaws. I hold my anvil in my left hand and tap the plier jaws against it, once and very lightly.

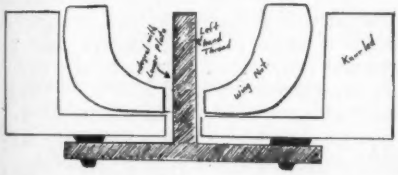
Care must be taken not to tap too hard, as you may break the cannon pinion or make it too tight. On very thin cannon pinions I put a broach through the pinion in order not to break it. I use this method for tightening second hands also.

I find this method works every time and saves a great deal of time.

Watch Case Opener

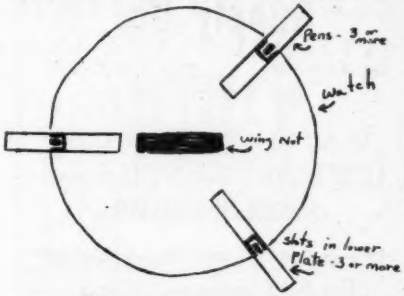
(Contest Article No. 262)

Below is a hurried sketch of a watch case opener I designed and made while working at the San Antonio arsenal,



San Antonio, Texas. I did quite an amount of civilian work calling for a wrench like this, so this was what happened.

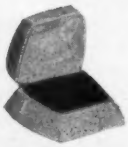
Three or more pins move in and out from center to fit watches of different



sizes. Should an unusually stubborn case necessitate use of vise, a bar of eight or ten inches slips through a knob of upper plate to provide additional leverage.

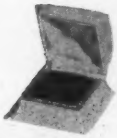
A. H. & J. Classified Ads Bring Phenomenal Results At a Nominal Cost!

Packaged Sales Appeal FOR RINGS



R. 150—White, ivory, or baby blue plastic, satin lining, velvet pad.

$4.90 Per Doz.



R. 400—White baby blue, wine or aqua plastic, satin lining, velvet pad.

$3.50 Per Doz.

Pad with two slots for double rings $2.00 per dozen extra.

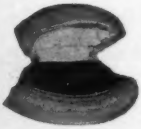
E. 150—White, ivory or baby blue plastic, satin lining, velvet pad for earrings.

$4.90 Per Doz.

R. 900—White, ivory baby blue, wine or aqua plastic satin lining, velvet pad.

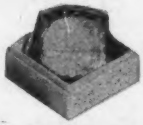
$2.85 Per Doz.

Pad with two slots for double rings $2.00 per dozen extra.



R. 200—White, ivory, baby blue, wine or aqua plastic, satin lining, velvet pad.

$4.85 Per Doz.



F. 250 — Transparent plastic with gold tooling, pad and ribbon for wedding bands of all widths, (four doz. to a box).

$2.85 Per Doz.

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Balance, Plate and Center
Jewels Fitted

A Complete Hairspring Vibrating and dial refinishing Service

Placing A Jewel in the Roller Table

(Contest Article No. 263)

Many watchmakers flip away approximately a half dozen jewels trying to place one in the roller table. To avoid the above mistake, I would suggest sticking point of tweezers in a stick of G.S. crystal cement before trying to pick up the jewel. This way it will be easier to place the jewel in the roller table.

Cannon Pinion Trouble

(Contest Article No. 265)

When I receive a small lady's wrist watch with a loose cannon pinion, I place a short piece of human hair in cannon pinion and then carefully press on cannon pinion with hair in it. This method also prevents breaking a cannon pinion, which often happens with the use of a cannon pinion tightener.

A Cleaning Hint

(Contest Article No. 267)

Though you use the best cleaning solutions to be had, after the watch comes out of the heating chamber of your machine, you sometimes see a slight oil film on the plates.

This may be prevented by brushing the plates and winding parts (before putting in the cleaning basket) with a small, medium stiff brush wet in a highgrade cleaning solvent or in your No. 3 Rinse. Then place the watch in basket and run a minute in No. 3 Rinse and spin dry.

Then run through your cleaner and rinses in the regular order and dry in the heating chamber. If you are using good solutions you will then have a clean brilliantly finished watch.

CONTEST WINNERS

Names are not used due to Grand Prizes. Each winner is notified monthly.

JULY

First Prize.....Article No. 251
Second Prize.....Article No. 248
Third Prize.....Article No. 247

IMMEDIATE DELIVERY!

of ROUNDS on all WATCH CRYSTALS

from 12 mm. to 26 mm., inclusive---ANY QUANTITY!

WATCH CRYSTALS THAT

SNAP-FIT by

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Outstanding VITREX features:

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New super sensitive circuit Picks up ticks of smallest bracelet and waterproof watches.

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Complete record all positions instantly printed on one continuous tape.

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This Attractive
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Information Please . . .

Directed by

W. H. SAMELIUS, *Chairman,*

Science of Horology & Technical Advisory Board

RK: Can you tell how clock glasses are gauged? What is meant by No. 8, 10 or 12 pivot?

Answer: The American plain clock glasses are gauged by the inch system. The French clock glasses having ground or beveled edges, are gauged by the metric system. Pivots that are marked 8, 10 or 12 etc., are gauged by the metric system. For example a No. 8 balance pivot will gauge .08MM, etc.

ARW: Sometime ago I was told if one pallet stone were moved out, slide on the opposite stone would be decreased. Slide on the stone which was moved would not be affected; also if both stones were moved out, slide on both stones would be decreased. Is this correct?

Answer: If you pull one stone out of the pallet or into the wheel, the slide on opposite stone will be decreased, but the total lock will remain the same; however, the stone you move into the wheel will also have reduced slide, with increased drop lock. The total lock will be more. If both stones are moved into the wheel, slide on both stones will be decreased. When setting up the escapement, adjust the lever by means of the banking screws so you will have proper jewel pin freedom or corner freedom, then check guard pin, if too close, shorten same until you have close corner freedom and close guard pin freedom. Bear in mind that this is a constant action and should require no further adjustment. Then set pallet stones so both stones receive the same drop lock and slide.

ES: I would like to know how to find the number of teeth in missing dial train. What can I use to cut down roller shanks, as my graver will not stay sharp?

Answer: For 12 hour dial train use the factor of 12.

To find missing pinion:

$$\frac{\text{Teeth X teeth}}{\text{Leaves of Known pinion X 12.}}$$

To find missing wheel:

$$\frac{\text{LEAVES X LEAVES X 12}}{\text{Teeth of Known wheel.}}$$

It is possible your gravers are not properly hardened and tempered. Heat them to a cherry red and plunge into water or oil. Then test for hardness. If you find the edge crumbles, heat very slowly, drawing the temper to a very light yellow. If you still have trouble, we suggest you procure a carboloy graver, of which there are several advertised on the market.

PP: How can I charge a copper lap with diamond dust?

Answer: Charging a copper lap with diamond dust is not a hard job. Make a steel lap about 3/4 inch in diameter and 1/4 inch wide and mount same in frame, fitting the frame into a file handle. The steel lap must be dead hard. Mix diamond powder with oil, placing the mixture on the copper lap, then roll the mixture into the copper lap with the steel roller, applying pressure, or the copper lap may be charged while revolving in the lathe by applying the powder and compressing the powder into the copper with a steel lap while the lathe is in motion.

RMW: What materials and what process can be used effectively to flat lap soft metals so as to obtain a flawless black polish?

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178 Broadway New York 7, N. Y.

Answer: To produce a dead flat surface, the article must be ground of a flat surface which is also dead flat. To get the dead black finish, depends a great deal on the powder you use and the material in the polishing block. Many polishing blocks are made from pure lead with 5% tin. Some use bell metal, some use plain glass and in all instances a dead flat surface is obtained. The black surface or appearance is obtained when the material has been hardened—the harder the steel, the blacker the polish. The writer knows of no method to get the solid black polish on soft steel; however, use boxwood and vienna line, and you will obtain a good polish but not the black finish. The surface will appear white.

RMV: How are watch plates gilded and how can I get a blue finish on brass? What solutions can I use to blue steel without changing the temperature?

Answer: For coloring brass use the following formula: (A) Liver of sulphur and water applied to the brass warmed to 180 degrees F. (B) Salamoniac salt and vinegar. (C) Corrosive sublimate, 1 oz., vinegar, 1 pint. Time should be allowed for solution to produce color desired. Wash and dry article in sawdust. To preserve the surface, apply a coat of lacquer.

Watch plates are gilded in a gold plating solution, using a low voltage of electricity. There is a complete plating outfit on the market that can be used to advantage in the small store. Most jobbers can furnish information and supply the plating outfit. You can also procure coloring solutions for blueing clock hands, which works very satisfactory. There are several makes and the jobbers can furnish this solution which is very inexpensive.

KN: Many times I find a balance wheel slightly out of round after the watch has run over-night. I am very careful to true the balance perfectly round before poising and installing the balance to place. What might be the cause for the balance wheel becoming out of round?

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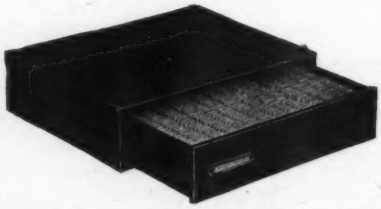

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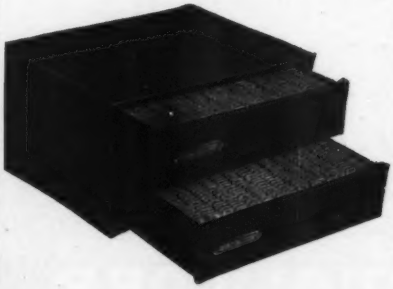

No. 14 1 Gross. Contains one each of 144 most popular mainsprings for American watches in two-drawer steel cabinet $39.90

Answer: This can occur from changes in temperature and especially noticeable with a cut balance wheel. It is true that you trued the balance; however, the room temperature was higher and during the night the temperature fell, which naturally will effect the balance rim causing them to expand out of true. Then again, you handled the balance wheel with your fingers which naturally are warmer than room temperature and after the balance was replaced in the movement and cooled to room temperature, it took its natural condition, leaving the rims out of round. The wheel, will not show any great out of true condition, but will be visible on close inspection.

SN: I often have trouble getting the proper action on the balance with the movement standing on edge, while the motion is perfect when the movement is laying flat. Can you tell where the trouble is?

Answer: I am sorry I cannot tell where the trouble may be without having the watch on hand for examination; however here are a few suggestions which may prove valuable and possibly help you find the trouble.

No. 1—Rough balance jewels or rough balance pivots.
No. 2—Pivots burred on ends.
No. 3—Too much side shake for balance pivots.
No. 4—Too much side shake in pallet pivots.
No. 5—Excessive end shake for staff or pallet arbor.
No. 6—Balance out of flat.
No. 7—Hairspring rubbing balance.
No. 8—Small roller jewel, rough fork slot.
No. 9—Loose guard pin.
No. 10—Loose roller jewel.
No. 11—Roller jewel too large.
No. 12—Lever too high or too low, touching roller table.
No. 13—Roller jewel contacting guard pin.
No. 14—Balance badly out of poise.
No. 15—Balance out of heat.

Any of these faults mentioned will cause different rates in the pendant

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position as compared to the dial position.

GC: Why are the American movements not equipped with stop works?

Answer: Some of our early American watches were equipped with stop works; however, improved gearing and with better quality mainsprings on the market that would run the watch a greater number of hours and of equal torque throughout the run, it was no longer necessary to apply stop works.

MG: How can I tell whether an article is sterling silver or silver plated?

Answer: On some spot on the article, file or cut a deep line, make a solution of two parts water to 1 part nitric acid. Apply a small drop of this solution to the cut place. If the article is made of silver, the mark or spot will turn black. If the article is silver plated, the spot will turn green, showing that the base metal is not silver.

HWB: Will you tell something about bells and bell metal and how heavy was the largest bell ever cast?

Answer: The average mixture for bell metal is 80 parts copper and 20 parts tin. During the early days of bell making, there was a notion that adding gold or silver would improve the tone of the bell. It was however, proven, that gold or silver was definitely injurious instead. The quality of the bell depends first on the proper proportion of alloys, then on the shape. The relation between it's height, width and thickness of the wall. In general, the smaller the bell, the higher the frequency of vibration, causing a higher pitch. One of the largest bells is one in Moscow. It is 21 feet in height and 21 feet in diameter. The weight is close to 200 tons. Made of bell metal, the bell was cast in 1734 and is known as the Great Bell of Moscow in Russia.

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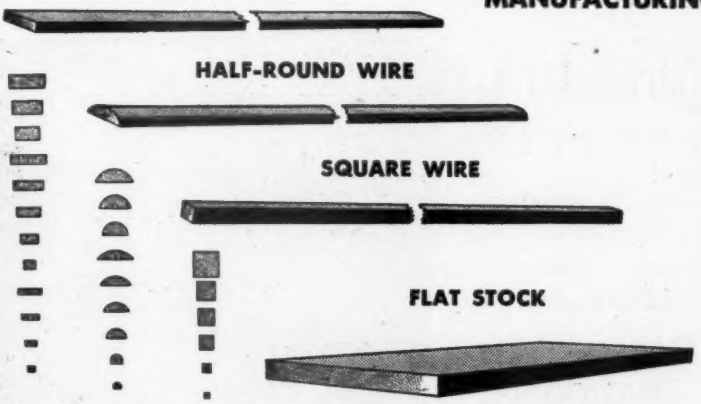

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An Interesting Experiment

(The following is reprinted from Kaynar Diamond Rays)

We understand the Wichita Chamber of Commerce recently conducted a little experiment. Ten men were given $10 each with the following instructions:

"Go to some Wichita store and make a trifling purchase of 50 cents or less. If the clerk offers to sell you anything else but it regardless of what it is and continue to buy whatever is suggested until your $10 is gone."

At the end of the day, the ten men brought back $94.60 of the $100 with which they started. Which means that ten Wichita clerks with a wide open chance to sell a hundred dollars worth of goods merely for the asking managed to get an average of 54c apiece. Moral —Clerks are not trained to "go after more sales."

"Don't be upset—the clock has an unbreakable crystal!"

Watchmaker's

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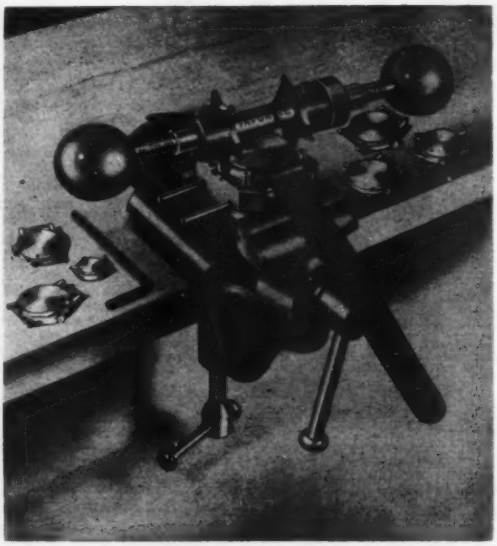

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OVER 30 YEARS OF SERVICE TO THE TRADE

Letters to the Editor

Reader Tells of Hand Made Watch

Editor:

Here is a picture of a watch which I made myself. It is all hand made. It is a 300 size in the American measure. Plate and bridges are made of aluminum, wheels of brass, and pinions of steel. The jewels are made of Montana moss agate. It runs 30 hours as any other small watch, and keeps accurate time.

Joseph Arnold, Jeweler,
6236 Eastern ave., S. E.
Grand Rapids 8, Mich.

Seeks Information

Editor:

I am a regular reader of the American Horologist & Jeweler, and like others would like some information regarding the difference between a chronometer and a chronograph. Since I work very little with these, I am wondering if they give the distance, or just how they work. Your help will be greatly appreciated .

Thanking you in advance, I am

James M. Andress,
1311 No. 32nd St.
Birmingham, Alabama

(In answer to your inquiry at hand asking for the difference between a chronometer and a chronograph.

Strictly speaking a chronometer is a time piece with a detent escapement, and this is used on board ship. Occasionally it is seen in Jewelry store windows. In this arrangement the fork is done away with, and the escape wheel gives its impulse directly to the balance. There is a detent in the movement set between the balance and escape wheel, and its function is to lock and unlock th escape wheel. The chronometer escapement delivers only one impulse for every tooth, unlike the lever escapement which delivers two impulses for each tooth.

Strictly speaking, a chronograph is a stop watch which has a minute register on its dial. A great many watchmakers speak of chronographs when they mean stop watches in general for instance football, basketball, and yachting timers.

Originally a chronograph meant a regular pocket watch equipped with sweep or split seconds, and a minute register added. Now they use the term rather loosely, and call everything that has a sweep second, that can be stopped, a chronograph.

Chronometers are usually made from about 32 size (8 day movement size) up to about 5 inches in diameter—rarely in a pocket size.

Hoping this makes it clear to you in understanding the difference.)—E. SEIBEL.

Inquiry Regarding Chronograph

Editor:

In regard to the enclosed photograph of a 19 ligne minute repeater chronograph by Ch. H. Meylan Brusses, No. 2085, could you tell me when this watch was made, and the approximate cost at the time it was made in an extra heavy solid 14K case.

Back in 1880 I repaired many of these, and up to 1890. After that they began to thin out, and lately have seen very few of them.

I purchased the above mentioned watch, and during my spare time at night worked on it for two weeks. I now have it in PERFECT condition, rating in five positions accurately.

I thank you.

Thos Van Auken,
Alpine, Texas.

(This watch is not over 40 years old, and it has been recased in an American case. As to its value, we are not in a position to say.) E. SEIBEL.

Cleaning Incabloc Jewels

Editor:

As an interested reader of your publication, I would like to pass on to you the following idea which might be called "more on cleaning Incabloc balance jewels.

1. Release the spring with a tweezer point.
2. Dip a small amount of benzine or rinsing solution into a very small material can.
3. Holding the Incabloc jewel assembly upside down with a tweezer, dip into the benzine in the material can.
4. Instantly the cap jewel will "pop" out at

the setting which holds the hole jewel, and the two jewels are separated with no fuss.

To clean the cap jewel hold it flat with a tweezer on the bench plate and wipe the face of it with a piece of pith dipped in the rinse solution.

To clean hole jewel use peg wood.

When cleaning watch, place lower set of jewels in bottom of basket and upper jewels in top.

For reassembling and oiling Incabloc jewels lay cup jewel flat on bench plate. Hold edge of jewel with tweezer and place a drop of oil in center. Oil upper side of hole jewel. Then place the hole jewel on the cap jewel and the oil will hold them together.

I have used the above method for the past eight years and have found no easier or quicker method of separating these jewels.

F. Strothman,
Wheeling, W. Virginia.

Reader Passes Along Idea

Editor:

I've read your trade journal ever since my first trip into Canada with the RAF, and look forward anxiously to receiving each new issue.

The articles are very interesting, especially those concerning the disabled veteran, as I myself am confined to the wheelchair due to the war.

I would like to pass on an idea of mine which has proved to be invaluable for anyone who has a slight paralysis of the hands, and has difficulty in controlling a graver in removing a broken staff.

First, draw the temper of the broken staff to blue. Do this by clipping a piece of copper wire on to the staff and hold it in the flame of a spirit lamp. Then set up the balance in a lathe chuck and remove by file or graver and taper that holds the roller. Having done this, center the balance seat by means of the centering tool; and after making sure your drill is somewhat larger than the rivetted portion of the staff proceed to drill off the balance seat. I find this method ideal for my slightly affected hands, and have done many staffs from bagnette to pocket watch sizes.

Finally, I would like to wish all the 100 per cent disabled veteran watchmakers of America all the best from one over here.

D. S. Stevenson,
97 Witchurch Gardens,
Edgware, Middx. Eng.

Disagrees With Trade Books

Editor:

Everytime I look at a trade book I see tools and ideas for removing sub third wheels or intermediate second wheels from watches. Why people want to bend the third wheel pinions or get the intermediate wheels out of flat in removing them is beyond me. It is entirely possible to remove the train bridge, clean and oil the upper third wheel jewel, and replace it in the watch without separating the two wheels, leaving the part in their factory condition, and without scars or marks on the bridges from use of levers or pullers, or even pin vises as some advocate.

To reassemble the watch, place barrel in the pillar plate and with the train bridge on the bench, with the inside up, put the center wheel in the bushing or jewel. Make a small spring, clamp out of a mainspring, and clip the center wheel to the barrel bridge, and reassemble in the conventional manner. The clip spring is easily removed by pulling out. (This is much easier than removing the intermediate seconds wheel.)

You will find the job much easier, neater, and done in less time than by removing the wheel.

S. Sgt. Stanley Barma, USMC
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GENUINE 16 SIZE ELGIN BALANCE ASSEMBLY

Complete with balance wheel, staff, combination roller table with roller jewel and Brequet hair spring. These are already poised and timed ready to set in any 16 size Elgin using double or combination roller or most any 16 size Elgin made in the last 25 years. We also furnish 2 balance hole jewels to fit the staff so you may complete your job in 10 minutes. Every watchmaker should have a few in stock.

SPECIAL PRICE COMPLETE.....$2.50

Also supplied in GENUINE 8/0 ELGIN, 6/0 HAMILTON complete just as mentioned above except without jewels. PRICE each.....$3.00

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PAUL LINN

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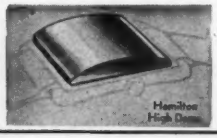

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FONT.—120, 150, 170, 155, 175, 52, 189.
ETA—735, 900, 980, 1000, 1010, 1045, 810.
FELSA—294.

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Living Timepiece

By Roland Ryder-Smith

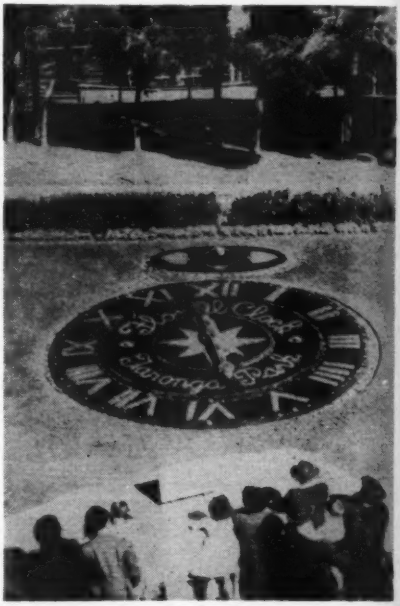
The city of Sydney, Australia, owns a time recorder which literally "says it with flowers." Located in lovely Taronga park this floral clock is one of the prime local attractions. No visitor, whether on his first or his fiftieth trip, fails to "take it in."

Week in, week out for the past 19 years the clock, whose monster hands are embossed with vivid emerald on a russet colored field, have traversed the huge circular dial, to the satisfaction of awed onlookers. The face measures 18 feet across and the hour and minute hands are six and eight feet respectively.

Its outer rim, minute marks, and the eight-pointed central star, as well as the roman numerals and the hands themselves, are all set with moss-like sagina and echevera plants, thousands of them. The rest of the clockface is carpeted with bronzy tinted alternanthera.

Because the works are invisible strangers are sometimes led to wonder whether the thing is operated electrically, by the wind or else some other mysterious agency. As a matter of fact the clock's mechanism is roughly that of the old "Grandfathers"—a business of weights and a pendulum. Every hour on the hour it sends out a cuckoo call.

The job of caring for the floral masterpiece both externally and internally devolves on one, John Michaels, who happens to be a rare combination of clocksmith and landscape gardner. For him tending the timepiece and the surrounding laws is just about a full-time business during the nine months



A group of Taronga Park strollers look down on the attractive flowering clock, Sydney, Australia.

season. Each by hand clipping takes him three days to complete. But fortunately this barbering doesn't occur too frequently—the clock's vegetation having been chosen for slow-growing

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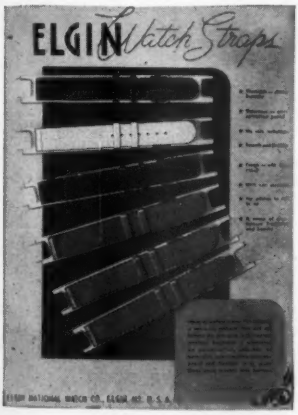

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characteristics as much as for appearance.

September, which is Australia's April, is replanting time, and approximately 100,000 new plants find a "timely" home within the magic circle. Following this new lay-out and a meticulous balancing of the hands with small lead weights, the clock will keep good "Greenwich" time.

For this curious horological landmark Sydney can thank Sir Arthur Rickard, wealthy New South Wales business man. While on holiday in Scotland back in 1926, Rickard ran on to the famous floral clock of Edinburgh. It fascinated him and thereupon he decided his home town should have its counterpart.

Within 18 months experts from the Old Country had installed the whole thing, including the "cuckoo"—a little bit of Britain Down Under—and the clock was formally opened a month or so later.

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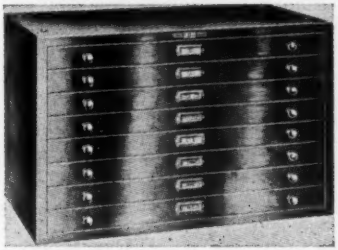

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Texas Association of Horological Schools

A regular meeting of the board of directors of the Texas Association of Horological Schools was held at the St. Anthony hotel, in San Antonio, Tex., on July 11, 12, and 13.

Those present at the meeting were: H. C. Brown and Imro Peterman representing the Texas Trade Schools of Dallas, Texas. Ed Fry representing the Hardin School of Horology of Wichita Falls, Texas. T. F. Watson, Henry Hard and O. T. Sutton representing the Houston School of Horology of Houston, Texas. Ben Miears, representing the Paris Junior college of Paris, Texas. Wilson Cranford, Dr. J. H. Cranford, Alfred L. Cranford, and William D. Rohlf, Jr. representing the Cranford College of Watchmaking of San Antonio, Texas. The above named schools and the Kilgore Junior college, whose representative was unable to attend, make up the charter members of the Texas Association of Horological Schools, whose aim and purpose of organization is the attainment of the highest standards obtainable in the teaching of Horology so that the profession may conduct itself so as to render the highest possible service to the public.

Minimum standards were set for schools desiring to join the association, all of which are of direct interest to the public, the student and future watchmaker, and instructors.

It was further decided that upon graduation from a member school, a student would be entitled to take a special watchmaker test, in addition to the regularly prescribed test of the school.

The next meeting of the board of directors of the Texas Association of Horological Schools will be held at the Hardin School of Horology in Wichita Falls, Texas, September 27 and 28.

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Examinees from May 10, 1937, to June 30, 1947

	Examinations	Failed	Passed	Cert. Nos.
Nov. 10, 1937, to June 20, 1940	78	44	34	1093, 1105-11 1113-1125 1127-1131 1141, 2, 6, 7, 8, 9
July 1, 1940, to June 30, 1941	25	8	17	1250-1266 inc.
July 1, 1941, to Aug. 10, 1944	60	24	36	1267-1302 inc.
Nov. 28, 1944, to June, 1946	70	29	41	1303-1343 inc.
June, 1946, to June 30, 1947	80	28	52	1344-1395 inc.
	313	133	180	

Recap of Persons Taking Examination

	No.	Passed	Failed	No. of Exam.	Represented
One examination	201	143	58	201	
Two examinations	47	33	14	94	
Three examinations	6	4	2	18	
	254	180	74	313	

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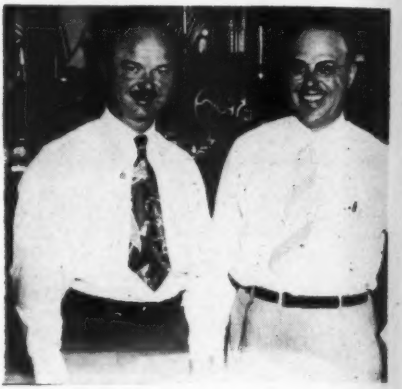
Tennessee School Official Visits Colorado

Forrest Osborne, director of the Southern College of Watchmaking, Memphis, Tenn., and executive board member of the National Association of Horological Schools, recently enjoyed a Colorado vacation. Driving with



Forrest Osborne (left) and O. R. Hagans

his wife and children, Mr. Osborne spent a few days in Denver conferring with N.A.H.S. executive secretary Orville R. Hagans and laying plans for the Second anniversary convention of the National Association of Horological Schools, to be held September 11 through 14 in Charlotte, North Carolina, in conjunction with the U.H.A.A. Fourteenth anniversary convention.

Increased Tool Allotment

After an eight-month fight, D. G. Underwood, secretary of the North Carolina Watchmakers' and Jewelers' association, has announced that the Veterans' administration has approved an increase in the tool allotment for ex-G. I.'s working at job training in North Carolina. Due to Mr. Underwood's untiring endeavor, $300 is now allowed for tools. This in an increase from the previously allotted $100.

Denver Visitor

Howard C. Feltenberg, director of the Jewelry Training service, watchmaking school, 226 South Wabash, Chicago, Ill., visited the office of Orville R. Hagans, executive secretary of the National Association of Horological Schools during a recent Colorado vacation. Traveling, by car with his wife and daughter, he is sightseeing in the Western states.

At the present time Mr. Feltenberg's school has over one-hundred students, nienty-five per cent of them veterans.

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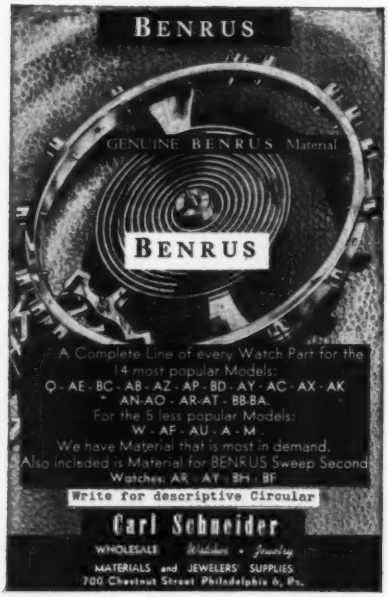

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Guild and Association News

Talk on State Legislation by Oklahoma Board Member

H. A. Gragg, secretary of Fort Worth guild announced that an important talk on State Legislation and other topics of interest to everyone was presented by Carl D. Hurst, Horologist and member of the Oklahoma board at the Texas hotel, on Tuesday, August 12 at 7:30 p. m., in Fort Worth, Texas.

Horological Association of Massachusetts

Winfred D. Hebert, chairman of the National Board of Trustees, of the U.H.A.A., recently announced that at a State meeting of the Horological Association of Massachusetts, held in Springfield, Mass., at the Bridgeway hotel, plans were made to send the trustee, one delegate, and one alternate to the Fourteenth Anniversary convention of the U.H.A.A. The National convention will be held at the Hotel Charlotte, Charlotte, N. C., Sept. 11, 12, 13, and 14, 1947.

Mr. Hebert also announced that the Massachusetts legislative group met in June to finish drafting its Bill to be presented at the January, 1948 session of the State legislature.

Milwaukee Watchmakers' Guild

The Milwaukee Watchmakers guild met in the H. P. Christensen Jewelry store, Racine, Wisc., May 27, at 8:30 p. m.

Visitors introduced were Ronald Jacobi, Milwaukee; Erco DeMarco, Racine; Lee Herrman, Burlington; Burt Burdick, Racine; Louis Gollberg, Milwaukee; Edward Medla, Cudahy; and Charles Varga, Jr. of Cudahy.

William Pillath, the WatchMaster representative gave a demonstration on timing and position adjusting and an open forum was held.

The minutes of the April meeting were read and approved.

Rudy Burgstaller made the presentation of a gavel to President Gerald Spangler.

The date of the watchmakers picnic was set for Aug. 3 at Cedarburg and all were urged to attend.

A rising vote of thanks was given to H. P. Christensen and to Roy Johnson for their help and courtesy.

The business meeting was adjourned at 9:30 after which coffee and Kringle, a tasty Danish pastry, were served.

James Greco,
Secretary.

Fort Worth Watchmakers' Guild

New officers were elected by the Fort Worth Watchmakers Guild at a dinner meeting recently.

Boyd Sargent is president; Charlie Fisher, vice president, Edward Joyce, treasurer, and H. A. Gragg, secretary.

Fort Worth, Dallas, Waco, Houston and San Antonio have guilds with membership above 100.

Nebraska State Convention Date Announced

Secretary Wayne A. Witt of the Horological Association of Nebraska reports that the Nebraska State Horological convention is scheduled for September 28, preceded by a stag meeting September 27 in Grand Island, Nebr.

North Carolina Watchmakers and Jewelers Association

At a recent meeting of the North Carolina Watchmakers and Jewelers association, an election of officers was held. All 1946 officers were re-elected. They are: M. F. Clay, president; W. A. Davidson, first vice-president; John C. Eagle, second vice-president; and D. G. Underwood, secretary-treasurer.

Mr. Underwood announces that guilds are expected to be organized soon in Durham, and Wilmington, N. C.

A. G. S. New York Guild

Closing its winter season on May 20, the New York guild of the American Gem society met in the offices of J. R. Wood & Sons with 29 members and guests in attendance.

Dr. Ralph Holmes, Ph. D., Columbia university, who regularly instructs at these meetings, discussed the fascinating subject of synthetic diamonds. He illustrated part of his lecture with a book written by the late Dr. J. Willard Hershey, who as professor of chemistry at McPherson college in Kansas, made many unsuccessful attempts from 1930 until his death a few years ago to produce the illusive gem.

After naming the various men who have tried—many of them for many years and at great expense—to create this hardest and most precious of gem materials, and describing the methods employed by each, Dr. Holmes concluded, "It still remains to be proved that man can synthecize diamonds."

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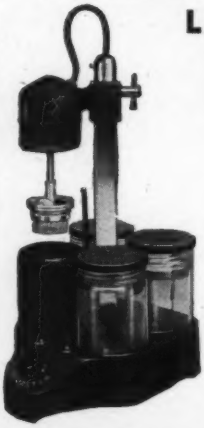

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Cincinnati Guild

At the last meeting of the Cincinnati guild of the Ohio Watchmakers' association, committee chairmen were appointed. They were as follows: Frank Foegler, legislation and education; Howard Sanders, dance; Leo Koelker, by-law and publicity; D. Scharf, library; Art Frentzel, publication; R. Flaxmeyer, hospitalization; E. Fisher, entertainment and refreshments; Vince Accurso, picnic; Joe Besse, membership; and E. Kaising, State matters. Election of the program chairman was deferred.

Capitol City Horological Guild

The Capitol City Horological guild, of Des Moines, Iowa, held its regular meeting June 4th, at Bishop's cafeteria. In spite of a cloud-burst at the exact time of the meeting, the meeting was well attended.

Those present had the pleasure of enjoying a most interesting and instructive lecture by A. W. Krause, former professor and physicist at Northwestern university. He is a lecturer and scientist and inventor of the multivibrator frequency divider and one of the developers of the quartz crystal. He is the installer of the first quartz crystal clock at the Greenwich observatory in London. Slides were used to illustrate the lecture and a demonstration was also given with the Paulson Time-O-Graf watch timing machine.

Charles R. Smith,
Secretary.

Los Angeles Guild

The June meeting of Los Angeles guild of the Horological Association of California was held on the 18th of that month. O. D. Johnson presided and began the meeting at 8:30 p. m. by having the minutes of the May meeting read and approved.

A short talk was given by the national president, John L. Nooyen on the coming national convention at Charlotte. The guild was then entertained by a picture "100 years of 1847" shown by the courtesy of International Silver company.

At the close of the picture, Vice-Chairman Meyer made a plea in behalf of the ex G. I. horological student, and asked employers to give these fellows a chance to gain a little experience.

After a short intermission, Edward L. Endman of Pacific Jewelers Supply company gave a talk entitled "The Value of Material Systems in the Repair Department." He stressed the importance of buying material systems that are usable and for which refills are available.

A short discussion on the oiling of Incabloc jewels was conducted by Chairman Johnson after which the meeting adjourned at 10:00 p. m.

Austin Watchmakers' Guild

A joint picnic was held at beautiful Landa park, New Braunfels, Tex., Sunday, July 27, by the Master Watchmakers' Association of San Antonio, and the Austin Watchmakers' guild. Landa park is located between Austin and San Antonio.

Barbecue was served to 83 members and their families, and later in the afternoon bottled drinks were served by B. M. Hammond company, San Antonio wholesalers.

Needless to say, everyone enjoyed themselves—some took advantage of the swimming pool—some indulged in pitching dollars—while others were content to just sit in the shade of the giant trees and take it easy.

All those who attended were in favor of making this joint picnic an annual affair.

Florida State Watchmakers' Association

Plans are now being completed for the Florida State Watchmakers' convention, which will be held in Miami October 5, 6, and 7, at the Columbus hotel.

Registration will start at 3:00 p. m., Sunday, October 5. A Monday-Business meeting will open at 10:00 a. m., and election of officers will be held during the Monday afternoon session. The three day convention will, in all probability, close on Tuesday afternoon, October 7.

Speakers which have been scheduled for this convention will discuss topics of an educational nature, and will prove to be of great interest to all watchmakers.

The convention will be held under the auspices of the newly formed guild, the Coral Gables Watchmakers' guild.

E. S. Johnson,
Secretary.

Watchmakers Form Guild in Coral Gables

Formation of the Coral Gables Watchmakers' guild, Coral Gables, Fla., was recently announced by Kenneth P. Ringer, newly elected president of the group. The guild is holding weekly luncheons each Tuesday at the Ely cafeteria.

Ernest A. Swanson, Jr., has been elected vice-president of this new guild, and Miss Ina Turner is secretary-treasurer.

"The purpose of the organization is to maintain a high level of workmanship and to promote fair practice in the watchmaking profession in Coral Gables," Mr. Ringer stated. "We also hope to be able to protect the public from unqualified watchmakers."

The guild is now making plans to entertain the Florida State Watchmakers' association, with which it is affiliated, at the State convention, to be held in Miami in October.

Miss Ina Turner,
Secretary-Treasurer.

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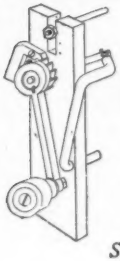

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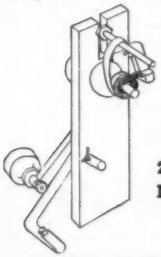

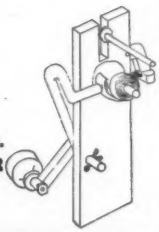

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We have an aggregate total of over 100 years experience by our seven active Material Men in the watch material and jewelers' supply business

Houston Horological Society

Sixty-five members of the Houston Horological society, gathered at the Houston Y. W. C. A. hall, June 19, to elect officers to preside until January 1, 1948.

The following officers were elected: P. W. Cadwaller, president; J. P. O'Brian, vice-president; J. O. McDonald, secretary; G. R. Stotts, treasurer; R. J. Hodgson and G. A. McCormick, recreation committee; and Willian W. Wylds, publicity chairman.

A society dance was held at the Dom Poloski hall, July 12, and music was furnished by the eleven-piece orchestra.

W. W. Wylds,
Publicity Chairman.

Capitol City Guild

The Capitol City Horological guild, Des Moines, Iowa, held its regular meeting May 7, and we were pleased by having 48 licensed watchmakers and two visitors in attendance.

The craft had the pleasure of enjoying the Elgin National Watch company's sound and color film, 'Jewel Bearings" and the film, "Time". A lecture was given by Glenn Averill on the subject of adjusting and rating watches by the use of the "WatchMaster" rate recorder. After the lecture, a practical demonstration was given to all interested. A very interesting and instructive evening was spent by all who attended.

At our next meeting, to be held June 4, we expect to be favored with a lecture by A. W. Krause, who was a professor and physicist with Northwestern university for 14 years. He is a lecturer and scientist and inventor of the multivibrator frequency divider and one of the developers of the quartz crystal. He will use a projector with slides and will have the new Paulson Time-O-Graf timing machine for demonstration.

All horologists are always welcome at our meetings, which are held at the Bishop cafeteria, Des Moines, the first Wednesday evening of each month.

Charles R. Smith,
Secretary.

Winston-Salem Guild

The Winston-Salem guild of the North Carolina Horological association held its regular monthly meeting August 12 at 8 o'clock.

The meeting was called to order by our president, Bill Rahn. D. G. Underwood read the minutes of the past meeting, and the floor was then open to new business discussions.

Our main topic was the coming national convention which is to be held in Charlotte. All members voted their full cooperation in helping to make it a successful convention. Bill Rahn, our president, was elected to represent the guild as a delegate to the convention.

R. M. Avery was then called upon to give the financial report of the guild.

Next on the program was a moving picture entitled "What Makes a Fine Watch Fine" which D. G. Underwood acquired from Hamilton Watch company. I can say for every one present that we gained much knowledge from this film. I don't think anyone realizes the designing and planning behind a new watch before it is ever released. We would all like to extend our thanks to the different manufacturers for these valuable films.

We had one of the largest attendances for this meeting in some time; and among our members was a guest from California and four from Durham. Thanks to everyone for making our meeting so successful.

D. G. Underwood, secretary, went to Hickory on the following Thursday to form guild No. 9 which is extremely helpful in building up the state association.

Bob Underwood.

North Central Florida Watchmakers' Guild

Organization and adoption of by-laws were completed at the May 27 meeting of the North Central Watchmakers' guild, held in Daytona Beach, Fla. It was also decided that meetings of the guild will be held the second Tuesday of each month.

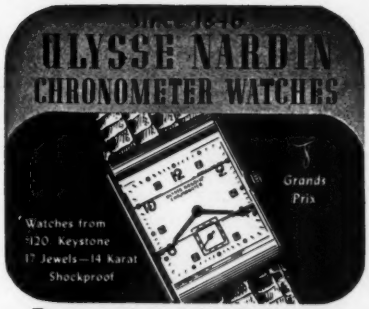
Officer's elected at the May meeting were as follows: L. W. Hoyt, president; Arthur B. Leete, secretary; and Joe Little, treas. The guild now has about 30 members.

L. W. Hoyt.

Patronizing Unknown Trade Shops Is Serious Risk

A letter and a clipping from a Chicago reader, warn of the risks watchmakers and jewelers run by submitting their trade work to trade shops of unknown reputation. Our correspondent informs us a trade shop, which advertises in another trade, paper, farms out the work it receives to various watchmakers who do its work as a sideline.

The trade shop owner's activities and methods of operation were brought to attention by a $3200 larceny suit brought by the Trade Shop operator one of the watchmakers to whom he had farmed out his trade work. The suit charges that the watchmaker took 20 watches, which he had agreed to fix. The owner of the trade shop believes he pawned them.



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Here is the perfect book for the expert and beginner. It is D. de Carle's newest work, **"PRACTICAL WATCH REPAIRING"** . . . a complete coverage of every phase of watch repairing from the very beginning to the very end. Fully covers all tools and their use.

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Is Licensing the Answer?

(Reprinted from the Retail Jeweler)

The New York State Watchmakers are petitioning the Legislature for the regulation and licensing of all watchmakers. The Legislature has been petitioned several times since the inception of the New York State Horological Society in 1938 at Cooperstown, N. Y., to adopt such legislation with no avail.

Their aspiration having been stymied each time by hard-headed opposition which prevented them a hearing in Committee, they are now about to try again.

That there is need for some sort of organized control for the servicing of the watch is generally admitted, but that the industry is prepared to accept such control by law is denied and is meeting with stout opposition.

The fact that the watch should be singled out from other thousands of mechanical instruments, now being used and serviced, for special legislation seems odd to the lay legislator altho it is now considered necessary to the well trained watchmaker who is in the good position to know how easily this highly sensitive and expensive little instrument can be ruined by the untrained master of all trades.

The ranks of the opposition also hold the retailing jewelers who seem more apprehensive of a law regulated industry than of a unionized trade. This opposition is odd too because one or the other is bound to come and in self interest the retailing Jeweler should have a hand in its formation.

The public is unaware, it does not know that five dollars will repair it and one dollar can ruin it. It just uses watches.

"Time is of the essence" is an adage understood by a shuffling, running being late people. Between nine and eleven million of these time gauges are being consumed by our population annually. It is a fine sensitive and expensive bit of machinery. It has evolved from crude craftsmanship into an article of perfection and simplicity.

New alloys and advanced methods of manufactured have changed craftsmanship and a fine art into a common trade.

Partmaking is no longer a prerequisite to the plying of this trade. Any person, with a sense for the mechanical, who is adept in the handling of small parts may learn without difficulty to break down, replace broken parts and reassemble the modern watch . . . provided, of cause, that he does not ruin half of the parts in the process.

Here is the hurdle. Any one with a fiddle and a bow can fiddle, the question is only how well? The "cocophony" that etudes from the yard fiddler harms no one. The antics of the curb would be watchmaker "kills" watches, hits fine trade names and gyps the public. Whether on the curb or in the store it is generally conceded that these frauds are a harmful nuisance and that some means should be found to stop them.

Is licensing administrated by a State authority the answer?

Licensing has solved difficult problems in other trades and professions and has hurt no one but the quack and the faker.

Licensing for Watchmakers should be supported by Jewelers and Watchmakers alike. Neither can afford to retard the wheels of progress in a life that is being made, for us daily, more and more scientific and specialized.

Of course we know that several smaller States, with much less diversified interests, have already adopted such legislation. Is the New York State Legislature prepared to pass such a law now?

Just one second—the 60th part of a minute on your watch, seems a very short period in time; however, in that tiny interval this is what can happen:

A soldier can walk four feet; a horse can trot 11 feet; a bullet will travel 1,465 feet; a hurricane storms its way 170 feet; sound travels 1,141 feet; and light 186,000 miles.

SET OF 3 PLUS 3 EXTRA BLADES
JEWEL SCREW DRIVERS
Bracelet Watch Screw Drivers

Count the Advantages

1. Brass Knurled Handles
2. Octagon Heads
3. Finest Tempered Reversible Steel Blades No. 7, 8, 9

REPLACEMENT PARTS
Blades 7, 8, 9 can be bought separately in dozen lots. Brass chuck also sold separately in dozen lots.

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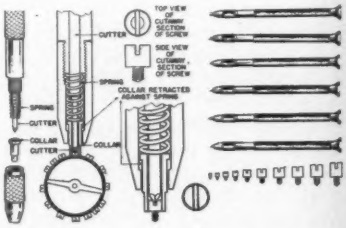
Industry News

C. & E. Marshall Company Announces New Tools

C. & E. Marshall company, in line with the interesting series of new tools they have been presenting to the watchmaking public, now offer a set of six balance screw cutters which they believe will revolutionize the procedure of cutting balance screws quickly and safely.

First, with these cutters there is no need to remove the screw from the balance wheel when cutting. The cutter works on the principle of a screw driver, and removes metal from the center of the top of the screw. The collar fits over the balance screw to hold the screw in position, then the handle is turned just like a screw driver. The cutter, which is centered automatically by the collar, countersinks (hollows out) the center of the top of the balance screw with this three bladed cutter. With six different sized cutters in this set, you can cut any size screw from small to large. (Tests have proved to C. & E. Marshall company that six different sized collars are necessary to fit all balance screws.)



This set is a wonderful time saver . . . tests proved that it takes less than half the time required to cut a balance screw by old fashioned methods. You achieve a round countersink in the center of the top of the screw, but you will not mar the screw or the balance wheel. And you can change the weight from 1 to 5 minutes per day on each pair of screws . . . quickly and safely.

Other C. & E. Marshall tools just being released are two sets of screw drivers designed to meet the exact specifications of watchmakers and are designed to answer the demand for the right sizes of screw drivers. In designing these sets, the company took into consideration the fact that the diameter and length of the handles should be in proportion to the blades, so the watchmaker will get the right "feel" in using these tools.

In the first WATCH-CRAFT set, the company offers six screw drivers with reversible blades and three different diameter

sizes in the handles. The set of six contains two of each size handle. The company has used sleeve style blade holders, since E. & C. Marshall believes it is sometimes difficult to keep threads in good condition. Every part of the screwdrivers is made of high quality steel, except the plastic colored tops. Each top is a different color to simplify selection of the screw driver you want for a particular job.

C. & E. Marshall company is also offering the WATCH-CRAFT Jewel Screw Drivers, consisting of a set of three with smaller blades. They are of exactly the same quality and design, have three different colored plastic tops. Extra blades are available for both of these sets of WATCH-CRAFT screw drivers. And all of these tools are designed, manufactured, guaranteed by C. & E. Marshall company.

Visitor from Java Tours Marshall Factory

During the Credit Jewelers' convention in Chicago, Mr. Kinsenberg of Batavia, Java, spent several hours at C. & E. Marshall company, going through the general offices and factory. He has a brother in Brussels, Belgium, who is a customer of C. & E. Marshall company.

Mr. Kinsenberg expressed surprise at the magnitude of C. & E. Marshall's factory, and was especially interested in the modern machines and methods. By contrast, he described a factory in Java where they have to be content with less modern methods. They seem to have the technical skill in Java, but their principle trouble is lack of materials. And especially, methods of testing materials. They have no way of knowing exact strengths and hardnesses until the material is used. He spoke of a diemaker spending several days of painstaking work designing and building a tool, only to have it fail with the first usage. Though the diemaker was skilled, the tool failed through no fault of his. Mr. Kinsenberg felt sure that with some of the modern machines used in C. & E. Marshall's factory, the people in Java could do a good job of production. He also said that they are determined to develop their industries, and are making every possible effort, though they are operating under tremendous handicaps. Mr. Kinsenberg said that he thoroughly enjoyed his visit in Chicago, and felt that his tour through C. & E. Marshall company was one of the high spots of his trip.

The more you tell
The quicker you sell—
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Complete Line of
WATCH MATERIALS
Specializing in Cabinets of
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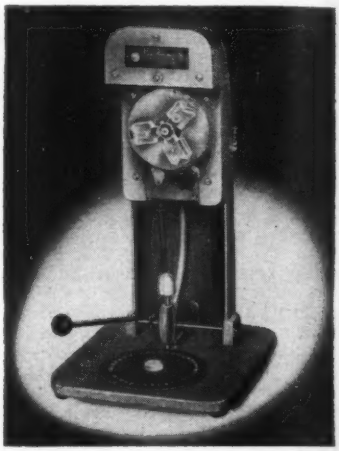
Attention WATCH REBUILDERS

6/8 line, gold-filled mesh band and case with Gold filled top, steel back, and gold filled crown. High dome crystal. 6.00 each.
Send Check, Money Order or C.O.D.
MIDTOWN TRADING CO.
50 West 47 Street New York, N. Y.

New Hermes Ring Engraver

Thousands of jewelers from coast to coast attending the recent jewelry shows expressed considerable interest and amazement when, for the first time, New Hermes, Inc., revealed to the trade its revolutionary Ring Engraver. This radically new, semi-automatic machine does a unique job which no other engraving machine can do. It engraves every kind of ring—on the *inside*.



Thus, for the first time, jewelers are now able to handle the difficult problem of engraving the inside of a ring with speed and precision and at little labor cost. The Ring Engraver operates so simply that anyone from clerk to store owner becomes an "engraving expert" in a matter of minutes.

New Hermes, Inc., 13-19 University place, New York 3, N. Y., states that the new machine, Model "R," is now in production and that orders are being taken for early delivery.

New Precision Cannon Pinion Tightener

The S and B Manufacturing company, 107 Pleasant street, Worcester 2, Mass., recently announced that at last a "Precision Cannon Pinion Tightener" has been developed which will do a better job easier, in less time than ever before, thereby simplifying the operation, and eliminating the difficulties experienced by all repairmen using the old methods. A description and illustration of this new product is included in the advertising pages of this issue of the American Horologist & Jeweler.

Mr. Bloom states that this Cannon Pinion Tightener has been in constant use for a number of years, under all workable conditions, on all sizes of pinions, of all makes of watches, and that all repairmen who have examined it marvel at it.

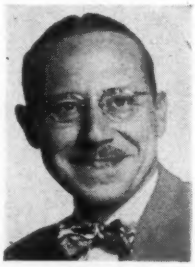
Bulova Adds Salesmen

John H. Ballard, president of the Bulova Watch company, announced today that Bernard Gold has been added to the sales force to work in the vicinity of Chicago, Ill.

At the same time, Mr. Ballard announced that Terry Born will work in the vicinity of Birmingham, Ala.

Former L & R Official Joins Zenith

Harold J. Loevy for the past five years connected with the L & R Mfg. Co. has joined the Zenith Cleaning Fluid Co. as an executive member of the firm.



Harold J. Loevy

Mr. Loevy held the position of vice-president with the L & R Mfg. Co. in charge of development and promotion of new products. Many of the innovations and products improvements were attributed to his keen judgment and discernment.

The Zenith company will change the name of the company to Zenith Mfg. & Chemical Corp. All present personnal will remain with the company.

The management of Zenith states that plans have already been formulated for the production of new items, laboratory tested, which will be ready for the market in the near future.

Video Time Signals

Video time signals, combining the use of movies and live announcements, are being used on five major television stations throughout the country at the present time, it was announced this week by Gordon Howard, advertising director of the Elgin National Watch company, Elgin, Ill.

Stations now being used include WBKB, Chicago; WCBS and WNBT, New York; WPTZ, Philadelphia, and KTLA, Los Angeles.

Howard said that the spot announcements are timed to run 20 seconds. The first 15 seconds are devoted to a sales message for the Lord and Lady Elgin line, utilizing a sound movie. The remaining five seconds of the film shows an Elgin "Timed to the Stars" montage with the sound track cut off to enable the local announcer to give the exact time announcement.

CARMEN WRISTWATCH MESH
Expansion Bands
Repaired—No Rivets

FROM **50c**
Free Estimates—Guaranteed
Prompt Service—Mail Order
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For further information our Catalogue will be sent to you on request.

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Manufacturers of Gold-Filled Crowns
Sold Through Jobbers Only
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BULOVA
Movement Second Hand
- 15 Jewels
- 10k R. G. P. Case S. S. Back
- Rhinestone Dial
- Gold Filled Bracelet
- Dome Glass

$24.95

Mail Orders Filled Promptly
Send Check, Money Order or C.O.D.

Lugerner's
THE HOUSE OF FINE WATCHES SINCE 1895
ONE PARK ROW NEW YORK, N. Y.

WATCH CRYSTAL FITTERS!
WHOLESALERS!
JOBBERS!

We supply **ALL** your fancy watch crystal needs with our COMPLETE line of:

FINISHED CRYSTALS
Regular Thick, Double Thick and Colored

BLANKS CRYSTALS
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Regular Thick and Double Thick for SWEEP SECOND only

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One Size Fits All Clocks
Finest Tone—$2.50 Pair

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702 Coney Island Ave. Brooklyn 18, N. Y.

Kreisler Brings Direct INS Wire to Chicago Meeting

News that a direct International News service wire would be piped into the forthcoming National Jewelry fair being held at the Stevens hotel in Chicago, was announced by the Jacques Kreisler Manufacturing corporation of North Bergen, N. J. A Trans-Lux machine, featured exclusively at the Kreisler booth, will flash the news to a screen as rapidly as it is received.

This completely new Kreisler booth differs greatly from the colonial house which has become familiar to visitors of Kreisler exhibits in the past. It has been fabricated from limed oak, which is the wood used in the manufacture of many of Kreisler's point-of-sale displays.

The exhibit will show a large illuminated map of the United States indicating the location of the 40 Kreisler salesmen who have made the phrase, "Kreisler's personalized direct contact," synonymous with their name. The map will also show the 99 marketing centers, in which Kreisler plans to concentrate its newspaper advertising campaign for the fall.

J. F. Bermond, vice-president, in charge of sales and advertising has stated that "the booth has been designed as a Kreisler service to convention visitors and is indicative of our desire to serve jewelers to their best interests."

Bayside to Announce New Vibrator

The Bayside Watch Tool company, Inc. of Bayside, N. Y. known to our readers as manufacturers of watchmakers' tools originally started out as makers of special tools such as hand dies, dial dies, and special machines for the watch and clock industry. They have furnished to watch and clock manufacturers in the United States and abroad, Electronic Hairspring Vibrators which enable the timing of hairsprings as accurately as ten seconds plus and minus per day. While this instrument was especially built for production work, they have also developed a vibrator which will be suitable for the hairspring vibrating trade and they will shortly announce this instrument.

The president of the company is Walter M. Hoffsommer, and experienced watch technician connected for many years with such national watch concerns as the Waltham Watch company, Bulova Watch company, and European watch concerns. Mr. Hoffsommer is also a member of the New York Horological society and is well known for his many contributions to the science of watch making such as hairspring overcoil machines, hairspring vibrators, and other watchmakers' tools and instruments.

American Time Products Expands Offices

American Time Products has made further expansion with additional space for its enlarged Advertising, Publicity and Sales Promotion departments at 580 Fifth avenue, New York. This increased space has become necessary, due to the enlargement of its operating facilities.

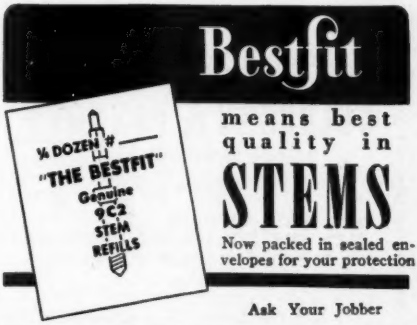
Self-Acting Center-Punch

Wide-range, automatic control of the force with which the point is driven into the work is one of the exclusive features of the IMPAKT self-acting center punch developed by Satterlee Products of 755 Boylston street, Boston, Mass. In this unique layout tool, the low mass of individual turns in a coil spring moves a short distance at high velocity, imparting a sharp blow to the point. The impact is accurately controlled to suit varied requirements—a light tap results when the

control knob is withdrawn about ⅛ inch and a heavy blow results when the full stroke of ⅜ inch is used. This smooth control permits extreme accuracy of work, especially on thin metal or where very small punch marks are desired.

The IMPAKT self-acting punch is 5/16 inch in diameter, 5 inches long, and weighs only ½ ounce. In its convenient, pencil size the tool is also useful as a scriber. Deep cut knurling aids secure gripping of shank and control knob. Points are replaceable.

Combining in a single, compact, lightweight instrument all requirements for accurate marking on metal and plastic surfaces, the IMPAKT self-acting punch and scriber is a universal layout tool to meet the needs of machinists, toolmakers, and other precision craftsmen.



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CROSSCURVED MAIN SPRINGS
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Now In Stock
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Used Pocket Watches! Wrist Watches!! Pocket Watch and Wrist Watch Movements. M. Presant, 4421 North Sheridan, Chicago 40, Illinois.

WATCHMAKERS—

You'll appreciate your

'SCRIBER'

For making watch cases, or any metal, glass or other hard substances, where a non-erasable mark is required. Use like an ordinary pencil. Hexagonal shaped handle of steel, zinc plated and CARBIDE tipped point. (The hardest known substance next to a diamond). Order yours today, satisfaction guaranteed

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WATCH DIAL REFINISHING

PROMPT MAIL SERVICE

"DIALCRAFT"

37 Maiden Lane New York, N. Y.

A Century of Fine Watches

There are very few watches nowadays that bear the tradition that is today associated with the famous Imperial line of timepieces. In 1849, when the Gold Rush occupied the thoughts of young America and the world, the Imperial Watch was celebrating its first anniversary. When the Civil War ended in 1865 the Imperial watch was already a young veteran of 17 years that had seen constant service on the battle fields of the North and the South.

Sidney Kramer

Admiral Dewey steamed victoriously out of Manila in 1898. Making the journey with his fleet was the Imperial Watch, for it was now a traditional timepiece with a fifty year history of being present at great events.

Fantastic as it sounds, Bayer, Pretzfelder & Mills, manufacturers and importers of the Imperial Watch, have a letter in their files from a young World War I aviator who told of having dropped his Imperial watch from the height of one mile during an aerial battle. The watch was later recovered and returned to him. It was in perfect running condition.

Now, the year 1948 will mark the 100th anniversary of this traditional timepiece and to mark this important event Sidney Kramer, president of B. P. & M., has released a statement on the company's advertising policy for the next 12 months.

Starting in September B. P. & M. will carry a series of impressive ads in all leading jewelry publications. Since the entire line which consists of Imperial, Glycerine and Nicolet watches together with the Harvard Timers is sold only through the wholesalers these ads will carry frequent listings of these wholesalers. These listings will familiarize the dealer with his sources of supply.

In addition to this expanded advertising policy designed to help both retailer and

wholesalers, Mr. Kramer announces that B. P. & M. is now preparing a new catalogue with photographs of the entire new B. P. & M. line. Of special interest to the retailer will be the section that clearly illustrates every part of these timepieces. These parts will always be available and thus the retailer can always assure his customers of proper replacements, if necessary.

Ever since the company was founded by Louis Strasburger in 1848 it has remained on a solid financial bases. During this entire period, it has maintained its Swiss factory at La Chaux-de-Fonds. Today B. P. & M. is the oldest company importing directly to the wholesalers and it is still doing business with firms that were on its books over 75 years ago.

Thus, with a century of progress behind its products, B. P. & M. looks forward to another century of growing tradition and service.

Once In A Lifetime

W. A. Hedrick was driving through North Carolina when his car broke down. A snappy new car screeched to a stop in response to his waving hand. The good Samaritan was D. G. Underwood, Secretary of the North Carolina Watchmakers and Jewelers Association. The new occupant was asked where he hailed from and the answer was, "New York."

"You wouldn't happen to know Charlie Fetter, president of American Time Products?" was the next question, but Hedrick did. "Why sure, I know him well." That was all that was needed to assure Hedrick transportation all the way to Salisbury that was far beyond Underwood's intended destination.

Louis Lefkoe Memorial Foundation

The Louis Lefkoe Memorial Foundation has been started as a charitable foundation to advance medical research and progress. It is intended to perpetuate the name of the late Louis Lefkoe, prominent Philadelphia jeweler, by continuing his charitable interests in medicine and medical progress. His untimely death resulted from a disease about which medicine knows little concerning either its cause or its treatment.

There were many contributors. The Foundation solicits further donations in honor of birthdays, anniversaries, or other special occasions, and in memory of friends and relatives. The donor will have each donation acknowledgement to himself and to the individual or family concerned. All donations will be tax free since the foundation is charitable and educational. Contributions to The Louis Lefkoe Memorial Foundation may be sent to Dr. Harold Lefkoe, Medical Arts Building, 16th and Walnut Sts., Philadelphia, Pa.

WM. S. McCAW CO.
Watch Materials—Jewelers' Supplies
Jewelry—Findings
Room 215-18 320 Superior St., Toledo, Ohio

American Watches
Ladies & Gents Wrist
Hamilton 992B, Elgin,
W. C. Ball and Waltham R. R. models
Like New ● Original Cases
Write for Price List
MARK-NELSON WATCH CO.
1212 Holland Building, St. Louis, Mo.

SCIENTIFIC SCHOOL of WATCHMAKING
3923 San Fernando Rd., Glendale 4, Calif.
Expert Instruction — Excellent Equipment
IMMEDIATE ENROLLMENT
WRITE FOR FULL INFORMATION

Model No. 111-D
- 17 Jewels
- 14k Gold Case
- Rhinestone Dial
- Gold Filled Bracelet
- Dome Glass

$28.50
Ask for Catalog
Mail Orders Filled Promptly
Send Check, Money Order or C.O.D.
Lugerner's
THE HOUSE OF FINE WATCHES SINCE 1899
ONE PARK ROW NEW YORK N Y

Cosmopolitan
WATCH MATERIAL IMPORTING CO.
Importers of Fine Quality Watch Materials and Tools
87 Nassau St. New York 8, N. Y.
Specializing in
QUALITY AND QUANTITY
BALANCE STAFFS HANDS
RUBY JEWELS PLIERS
MAINSRINGS TWEEZERS
Sold Through Jobbers Only
Reg. Trade Marks
EXACT, COSCO, COSMO

WATCH DIALS REFINISHED
Diamond Dials A Specialty
ATTENTION CRYSTAL SHOPS
V. H. Gateman
424 So. Broadway Los Angeles 13
TUcker 4636

NO JOB TOO DIFFICULT FOR US
All Parts of Watch Cases Made to Order
Also Jewelry Repairing
A Trial Will Convince You
PACIFIC WATCH CASE CO.
Office: 323 W. 5th St., Room 409
Los Angeles 13, California
S. Davidson, Prop.

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. . . for Rings, Watches, Earrings, Compacts, Cigarette Cases, Watch Bands, Straps, Etc.
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WHOLESALE JEWELERS
22 WEST 48th ST., NEW YORK 19

PACIFIC JEWELRY REPAIR SERVICE
Expert Watch & Jewelry Repairing
5 to 7 Day Service
Diamond Setting & Engraving Service
524 SOUTH SPRING ST.
TU. 3348 LOS ANGELES, CAL.

Watch Cases & Materials
IN STOCK FOR IMMEDIATE DELIVERY
NEW PRICE LIST—WRITE TODAY
J. SHAKIN CO.
Wholesale Watch Materials & Jewelry
116 Nassau St. New York 7, N. Y.

Early American Clock Dials
The duplication, repair or refinishing our specialty. Estimates cheerfully given.
J. E. COLEMAN
64 Arcade Bldg. Nashville, Tenn.

ARISTO TRAVELING CLOCK CASES

Genuine Leather Cases in stock for immediate delivery. For 2 3/8 and 2 5/8" diameter openings.
No. 22-H Genuine Morocco in Black, dk Blue, Brown, Green, Red. Keytone $11.00
ARISTO IMPORT CO., INC.
Rockefeller Center
630 Fifth Ave. New York 20, N. Y.

VULCAIN CRICKET (Cont.)

one was created, some would not ring accurately, others were too big and still others gave forth a low sound.

The story of how final success was achieved is almost unbelieveable. As Mr. Lippman related it, one morning a Vulcain executive was walking in the country when he heard crickets making their peculiar noise. "CRICKETS! . . . Isn't a cricket much smaller than a wrist watch?" he thought. "And can't it be heard from quite a distance?" This seemed like a new spur for research. Nature had shown that the problem *could* be solved, it was up to man to work it out!

Working with renewed inspiration, Vulcain finally produced this alarm wrist watch. And because the inspiration had come from one of nature's creations Vulcain called it the "Cricket."

The Vulcain Cricket is accurate to a fraction of a second, each gold alarm wrist watch comes with an Official Swiss Certificate awarded only to those watches that have met the most rigid tests for accuracy in several positions and temperatures. There's nothing complicated about the Cricket either for the wearer or the watchmaker. The hands and movements for both alarm and time are operated from the same crown. A tiny push button above the crown stops the alarm or permits it to ring as required.

Only a limited number of Vulcain Crickets will be made available through the balance of 1947 but substantially increased shipments are expected early in 1948. The watches will come cased in stainless steel and 14K gold.

Mr. Lippman said that plans call for the introduction of the watch in mid-October starting with some full page, full color and large space black and white insertions in Esquire, Fortune, Time, the New Yorker, etc. Special dimensional displays, circulars, mats and folders will be made available to all Vulcain agencies. At the same time an extensive publicity program will break using newspapers, radio and magazines.

The advertising, merchandising and publicity programs are under the direction of Ben Sackheim, Inc., New York.

Until about fifty years ago there was little demand for nickel except for nickel plating, for nickel coins, and for nickel silver to make articles for domestic use and as a base for silver-plated ware. Since that time, and especially since 1921, hundreds of additional uses have been discovered for this metal, largely through scientific research.

Classified Advertising

CLASSIFIED—Payable in advance. Rates under all heading except "Positions Wanted," $1.50 for first 25 words, five cents for each additional word. "Positions Wanted," 75 cents for first 25 words, five cents for each additional word. Bold face type five cents additional per word; capitals, also five cents additional per word. Box numbers for "Blind" advertisements, 50 cents additional for postage and handling.

SPECIAL NOTICES

IF YOU DESIRE TO KEEP POSTED ON LATEST DEVELOPMENTS IN THE SWISS WATCH INDUSTRY AND SWISS WATCHMAKING TRADES, ON SOURCES OF SUPPLY FOR SWISS WATCHES AND SWISS WATCH MATERIALS, SUBSCRIBE TO THE "JOURNAL SUISSE D'HORLOGERIE ET DE BIJOUTERIE" (SWISS WATCH AND JEWELRY JOURNAL). ISSUED BI-MONTHLY. FRENCH-ENGLISH EDITION CONTAINS ENGLISH TRANSLATIONS OF ALL IMPORTANT ARTICLES. YEARLY SUBSCRIPTION $5.00. SAMPLE COPIES 50c MAILING CHARGE. SOLE AGENTS: OVERSEAS PUBLISHERS' REPRESENTATIVE, 70 BEAVER STREET, NEW YORK 4, N. Y.

WATCHMAKERS!!!!

ARE YOU STUCK FOR A PART? We will find it for you
Send sample of movement—
Small service charge.
COMPLETE BALANCES—for all popular Swiss and American.
GOOD USED MOVEMENTS—Trade-ins accepted.
NEW & USED CASES—BEZELS MATCHED
If you are stuck for any watch part—send to us before you give up.
We can match or secure original staff for practically any watch.
We can secure parts of old pocket watches like N. Y. Standard, Illinois, South Bend, Longines, Rockford, Howard, Elgin, Waltham, Hampden, Tavannes, Zenith, Etc.
Our service charge for securing parts, movements, or matching a case is $1.00 per job, plus regular material cost, even if more than one part is needed for the same watch. No charge if we don't succeed.
We have letters from all over the U. S. and Canada and Alaska praising our service.
BONDED MESSENGER SERVICE
1 Charles St. (or Box 13H) White Plains, N. Y.

MATERIAL PROBLEMS
DO NOT RETURN THAT WATCH UNTIL YOU SEE US FOR THAT MISSING PART. SEND SAMPLE AND IDENTIFICATION.
UNIVERSAL, 853 BROADWAY, NEW YORK CITY.

WATCHMAKERS
Are your watch material bills cutting down your PROFIT?
Send for my price list.
I sell as Low as possible without sacrificing quality. No premium charged for hard-to-get parts.
JOSEPH L. MARGULIS
5881 WOODCREST AVE.
PHILA. 31, PA.

WATCH CLEANER, less than 75 cents a GALLON. Mix it yourself. Simple ingredients. Professional quality. Hand or machine. Complete MODERN Formula and easy directions. BOTH CLEANER and RINSE, $10.00. Dunn's, 632 Lamberton St., Trenton 10, N. J.

SPECIAL NOTICES (Cont.)

WATCHMAKERS BOOK
"Rules and Practice for Adjusting Watches" and "Practical Balance and Hair Spring Work." Strictly practical books by Walter Kleinlein. Your jobber or trade journal.

Camera Supplier—to the horological and jewelry trade. Special prices on Argus, Keystone, Universal, Revere, Briskin cameras & others. We buy & trade. Write—Charles Wolfe, 167 Canal St., N. Y. 13, N. Y.

Wanted!—Established Jewelry Store in Northern part of Indiana. Around $6,000.00. Population 5,000 to 10,000. All information strictly confidential. Write Box 663, c/o American Horologist & Jeweler.

SPORTSMEN AND SPORTSWOMEN
Don't go fishing without Usher's annual fishing guide. Get your copy for 35 cents, at any News stand.

POSITIONS WANTED

Watchmaker—Salesman
Estimator repairs. Light Jewelry repairing. Ring Sizing, etc. 20 years' Experience. 40 years old. Married. Top references, character, ability. Prefer California. Write Box 662, c/o American Horologist & Jeweler.

Watchmaker—wants permanent position in South or Southwest—graduate of accredited watchmakers' School—have had seven months' experience—have own tools. John L. Ashling, 640 So. Washington St., Greenfield, Ohio.

Graduating from accredited watchmaking school Nov. 7. Desires permanent position where fine workmanship is required. Prefer Phoenix, Arizona or southwest. Philip E. Graczyk, 512 N. Isabel St., Glendale 6, Calif.

POSITIONS AVAILABLE

WATCHMAKERS WANTED

Hgh-grade clock factory has opportunities for several watchmakers of exceptional ability. Prefer factory trained men, thoroughly experienced in matching and finishing 16-size watch escapements. These men must also be capable of doing some teaching.

Give complete information regarding past experience and wages expected in first letter.

Chelsea Clock Company
P. O. Box 1098
Boston, Massachusetts

EXCEPTIONAL OPPORTUNITY
Sales representative now calling on watch material jobbers and wholesalers. Territory from Denver West. Protected, established territory Nationally accepted line of watch cleaning machines, solutions, etc. No objections to other lines. Commission basis. Write full particulars. Interview will be arranged on West coast. Zenith Mfg. & Chemical Corp., 52 Beekman Street, New York 7, N. Y.

MATERIAL MAN WANTED
Experienced. Excellent opportunity for right man. Pleasant working conditions. Permanent. Salary open. In San Francisco. Write c/o Box 665, American Horologist & Jeweler.

Wisconsin licensed watchmaker wanted—permanent position in fine new store in heart of Wisconsin's vacation land. State salary expected or 50-50 proposition. Grooms & Norton, Jewelers, Rice Lake, Wis.

POSITIONS AVAILABLE (Cont.)

Watchmaker wanted—Experienced—excellent position. State past experience and school attended in first letter.

Reply to: E. Wolford
1312 Beechwood Avenue
Pittsburgh, Pennsylvania

Experienced first class watchmaker—Fine working conditions. Romm & Co., 100 Main Street, Brockton, Mass. Established 1900.

STORES FOR SALE

Jewelry store and watch repair; well established; very good repair following; clean, well balanced stock; modern fixtures in city of 100,000 population. Fixtures and stock $8,000.00. Paulson Time O Graph included. $1,000.00 material optional. For full information, write 129½ South Della St., Stockton, California.

SERVICES AND TRADE WORK

In new quarters offering a complete service to the Jeweler—
PRECISION WATCH REPAIRING
CRYSTAL FITTING
DIAL REFINISHING
HAIRSPRING VIBRATING
All watches completely taken apart for cleaning. Guaranteed and timed on Western Electric Watch. master. ONE DAY SERVICE ON CRYSTALS. Mail orders insured. Reasonable prices.
MOREY SCHWARTZ
Room 400-424 S. Broadway
Los Angeles 13, Calif.—Mutual 1928

EXPANSION
BANDS
REPAIRED
75c to $1.00
Plus cost of New Material supplied
LITERS & SHAVERS
Repaired 75c & up
RING SIZING
A Specialty
75c & Up
EXCHANGE SERVICE ON BANDS
$1.50 plus your old band
24 HOUR SERVICE
G & H REPAIR SERVICE
13344 Ave. N.
Chicago 33, Ill.

Hairspring vibrating—Same day service
Flat, $1.75 Breguet, $2.50
Pinning point—Send job for estimate.
Fitted to Bridge—No leveling necessary.
Check poise to avoid position error.
Write today for heavy mailing envelopes,
Charles Thomas & Co.
P. O. Box 330 Union City, New Jersey
Formerly in charge of hairspring department for Bulova Watch Co.

EXPANSION BANDS REPAIRED
FLAT RATE OF $1.00
24 HOURS SERVICE—NO RIVETS
ALL BANDS FINISHED LIKE NEW
OUR WORK GUARANTEED
EVERY TYPE OF
JEWELRY REPAIR DONE
ONLY MAIL ORDERS ACCEPTED
MORLEN REPAIR SERVICE
7815 S. CONSTANCE AVE.
CHICAGO, ILLINOIS

SERVICES AND TRADE WORK (Cont.)

Swiss **American**
HAIRSPRING VIBRATING
By Our New Electronic Process
Mail Orders Our Specialty—Satisfaction Guaranteed
"One Week Service"
TROOP-BALAS & CO.
517 Washington Square Bldg.
700 Chestnut Phila. 6, Pa.

SILVERPLATING, GOLD, CHROMIUM, BRASS AND NICKEL. JEWELERS EVERYWHERE SEND US WRITTEN DISCRIPTION OF WHAT YOU WANT PLATED AND WE WILL SUBMIT CLOSE ESTIMATE, SO THAT YOU MAY QUOTE YOUR CUSTOMERS. MASTER SILVERPLATERS, 2031 CANIFF, DETROIT 12, MICH.

EXPERT WATCH REPAIRING 35 years for the Trade.
Specializing complicated works. Chronographs, Timers, Repeaters.
ALL WATCHES TESTED BY WATCHMASTER.
Mail orders promptly.
Also on hand, hard-to-get Swiss materials.
among others—Stem & Staff ETA, 1051-1081.
Stem & Unitas, 186-190
Stem & Marvins, 520
Haig Megurian, 707 South Broadway, Los Angeles 14. California.

HAIRSPRINGS VIBRATED IN 4 DAYS
Flat—$1.75 Breguet—$2.50
Our workmanship is second to none plus quickest delivery.
Special vibrations and fast trains. Estimates given on all such jobs. Complete information of make, size, and model is imperative, for every job, to avoid errors.
H. Encols
(formerly May Watch Service)
116 Nassau Street,
New York 7, N. Y.

A complete watch, clock and jewelry repair service to the trade, specializing in high grade watches and chronographs of all types. One week service on watch and clock work. Crystals and jewelry repairs can be returned the same day received. Serving the retail jeweler for more than 20 years. Write for price list and references. R. R. Permenter Manufacturing Jeweler, 5th Floor, Rector Bldg., Little Rock, Arkansas.

AN OLD COMPANY
WITH A NEW DEPARTMENT
Repairing Chronographs, Stop Watches, and other complicated watches. No better workmanship or service can be had. Send for our New Lower Price List covering all kinds of watch repairing. All Watches checked by special electric Precision Timer.
SYSTEM SERVICE CO.
213 So. Broadway
Los Angeles 12, Calif.

TRADE WORK
We are now in a position to accept a few new accounts to add to our growing clientele. Prices correct, Work correct. Watches timed on WatchMaster. Service prompt. Write for price list. All work guaranteed. **S. & G. WATCH REPAIR CO.**, 6 Maiden Lane, New York 7, New York. Tel. Rector 2-9093.

Fine Watch Repairs for the Trade. Fast and Reliable Service. All work Guaranteed. Estimates submitted before we proceed. G G G WATCHMAKERS FOR THE TRADE, operated by Arum Bros., 7 West 44th St., New York 19, N. Y. Jack Arum former Manager of Service Dept. for Bulova Watch Company.

WATCH REPAIR HEADACHES?
Here's a Sure Cure
THE D'EMILIO CO.
High Quality watch repairing timed on "Watchmaster". Guaranteed workmanship—reliable service. Price list upon request.
D'Emilio Co., 707 Walnut St., Phila. Pa.

SERVICES AND TRADE WORK (Cont.)

Hairspring Vibrating
Flat. $2.00 Breg. $3.00
One day service when requested
Also Watch and Clock repairing
Clyde McCoy
323 West 5th St.
Los Angeles 13, Calif.

HIGH QUALITY WATCH REPAIRING
By watchmaker accustomed to doing high grade work. All watches timed on WatchMaster. All work guaranteed. Prompt service. Can furnish best references. Send for price list. F. Angerame, 150 Nassau Street, New York 7, New York.

TRADE WORK
High quality watch repairing. Special attention given to mail orders. Work guaranteed. Reference. A trial will convince you. Estimates cheerfully furnished. Victor Smera, Precision Watch Repairing, 61-18 43rd Ave., Woodside, L. I., N. Y.

High-quality watch repairing. Scientifically tested on Western Electric Watchmaster. All work guaranteed for one year. Prompt service at lowest prices. References and price list on request. Mail orders our specialty. Burton Marcus, 53 West 47th Street, New York 19, N. Y.

WATCH REPAIRING
5 Day Service
all work tested on
WATCHMASTER
RI-MARK WATCH CO.
Room 311
80-82 Bowery New York 13, N. Y.

WATCH REPAIRING
Reduced prices to stimulate business, and are giving the storekeeper a chance to reduce the price of repairs to his customer. Same high standards maintained. Regulated Time Service, 1508 Charlotte St., Bronx 60, New York.

CLOCKS REPAIRED, ALL MAKES
Foreign and domestic spring, weight and electric special movements—prompt service. Work guaranteed.
GEM CLOCK SERVICE
1344 W. Division St., Chicago 22, Ill.

FINE WATCH REPAIRING. THE FACTORY WAY PAYS BIG DIVIDENDS.
Fast accurate trade service at low cost by expert watchmakers.
Watchcraft Company, 132 Nassau St., New York 7, N. Y.

I wish to offer my services to jewelers who take pride in turning out top quality watch repair work. All work fully guaranteed and adjusted to position with a WatchMaster. Work done personally by David M. Simpson, 5146 West 137 Place, Hawthorne, Calif.

HAIR-SPRING
TWEEZERS
Hardened, Tempered, Sharpened
VALDEMAR VIRTANEN
43 Park Place, Morristown, N. J.

Watch repairing for the Trade. (Wholesale). All watches timed on Watchmaster. Fast Service; EXPERIENCED MEN ONLY. Guaranteed workmanship. Low prices. D'Emilio Co., 707 Walnut St., Phila., Pa., Room 204.

Expert Watch Repairing to the trade. Only good quality work accepted. Mail orders are my specialty. Work guaranteed. Prices on request. Mac Eiseman, 1700 Longfellow Ave., Bronx 60, New York, N. Y.

SERVICES AND TRADE WORK (Cont.)

Reliable quality work on all watches. Back to our usual pre-war quality of service. Popular prices. References—Bank of America. J. Stanley Martin, 2257 Pacific Ave., Long Beach, California.

Watch repairing for the trade. Can handle 3 or 4 additional accounts. Satisfactory work. 10-day service. Prices sent on request. Edward M. Hewitt, 413 Colorado Building, Denver 2, Colorado.

PRICES moderate, guaranteed and prompt service. Mail order specialists. Watch repairing list on request. Greenwich Watch Service, 1 Astor Place. Jersey City, New Jersey.

Watch Repairing for the Trade. Chronograph specialists. Fast guaranteed service. Price list upon request. Orbit Watch Co., 116 Nassau St., New York 7, New York.

FOR SERVICE
R-J Mfg. Jewelers, 86 Bowery, New York, N. Y. Ca-6-3373. **Special order** and **repair Work. Mfg. platinum and gold mountings. Direct importer of Diamonds.**

TRADE WORK
High grade watch repairing. Chronographs, stop watches, repeaters especially. F. S. Horological Co., Dept. F, 509 Fifth Ave., New York 17, N. Y.

GOLD AND BALBERT
Watch repairs for the trade
Guaranteed and prompt service
1423 Noble Ave. N. Y. 60, N. Y.

REPAIR OF WATCHES AND CHRONOGRAPHS
Expert Service. Prompt attention includes mail orders. Eric Field, 507 111 St., New York 25, N. Y.

Guaranteed watch repairing for the trade. Specializing in high grade watches. 15 years' experience. 10 days' service. E. S. D. Finney, Box 381, Big Springs, Texas.

Watch repairing for the trade. Quick service, all work guaranteed. Write for price list. D. E. Smith, 1469 Garfield St., Denver 6, Colorado.

Watchmakers' tweezers reconditioned. Prompt return. Earl Simmons, 115 29th St. N. E., Cedar Rapids, Iowa.

WANTED TO BUY

I pay cash for jewelers' and watchmakers' tools of all kinds: motors, lathes, machines, etc. State full details. Lee Mercy, 218 E. 59 St., New York, N. Y.

WANTED TO BUY
A used Jeweler's Rolling Mill. Please quote price and send full particulars to WYMAN-OSTRANDER, 722 15th Street, Denver 2, Colorado.

Wanted to purchase, established watch material wholesale supply house. Box 664, c/o American Horologist & Jeweler.

ARTICLES FOR SALE

For Immediate Delivery. Electric Soldering and Watch Cleaning Machines. Cleaning and Soldering Solutions, Screwdrivers, Pin Vice Crystals, Tags, Hands, Balance Staffs, Stems, Crowns. 7-15-17-J Gents' Braclet Watches, White and Yellow. Gents' Stretch Bands. Ladies' Bands, Metal and Cord. 6 inch short chain. Nose pliers, only 2 pair to a customer. Tweezers, Eye Loupes, and many other items. Write me your needs. Sheffield Trade Store, 852 Texas Avenue, Shreveport, Louisiana.

ARTICLES FOR SALE (Cont.)

"QUESTIONS AND ANSWERS For The Student Watchmaker"—This book is for those studying to become watch repairers. Presented in the form of questions and answers. Covers from dissembling a watch to adjusting the escapement. 234 illustrations enable the student to grasp and understand it more readily. If you are a student, you should have this book. Price postpaid $5.00. Magonbe Globe Company, 1991 Broadway, New York 23.

WATCH MATERIALS AND PARTS
For hard-to-get materials, watch parts, train or balance wheels complete, pallet forks, also for new and used cases or any problem, send movements to F. S. Horological Co., Dept. E., 509 Fifth Ave., New York 17, N. Y.
Jewels fitted; staffs made; hairsprings vibrated; dials refinished. Unavailable pairs duplicated, **wheels cut, pinions repivoted.**

WONDERFUL VALUES! Screw driver set of 8 (No. 2 to No. 9, inclusive) $1.65. Click Springs, 1 gross, best sizes, assorted, $1.35. Special: Superior G.F. Crowns, three colors for each of 24 best numbers, 24-bottle charted cabinet assortment of 72 Crowns, $7.50. Order today. Atlantic W. M. & Tool Co., Box 2424, Greensboro, N. C.

USED POCKET WATCHES! WRIST WATCHES!! POCKET WATCH AND WRIST WATCH MOVEMENTS. M. PRESANT, 4421 NORTH SHERIDAN, CHICAGO 40, ILLINOIS.

OPALS AND EMERALDS—Large quantities and varieties available. All sent subject your approval to any part of the world. Write for details, stating particular requirements. Box 647, c/o American Horologist & Jeweler.

FF120—LADIES WRIST WATCHES—FF120
Brand new, 6¼ x 8, FF120, 10K R.G.P. top, steel back, cord band. 7 jewel $14.50 each; 17 jewel $17.00 each. Immediate delivery. Cash with order or C.O.D. Phillips Watch Company, 2831 Lombardy Court, Augusta, Georgia.

Zircons—3 for $3
ZIRCONS, loose, 1st quality. Pure white. Special: 3 Zircons approximate total weight 3-kts, $3.00. We can supply Zircons in all sizes and mountings of all types. Send order or write for details today. B. Lowe, Dept. AH-9, Holland Bldg., St. Louis, Mo.

WATCH REPAIR TAGS, white; numbered, from 1 to 10,000. Long tags, $3.00 per 1,000; square tags, $4.00 per 1,000. Printing, $2.00 extra. Send cards for catalog No. 2, Rex Tag Co., 26 Park Place, New York 7, N. Y.

For Sale: Complete set of watchmakers tools and fixtures, including automatic Demasking Machine, Drillpress. Mail inquiries are welcome. Personal inspection is preferred. John Drexler, 3209 W. Wells St., Milwaukee 8, Wisconsin.

For sale: 600 Swiss wrist watches, all types, standard A.S.—E.T.A. and F.F. makes. All 17 jewels, ladies' and men's in gold, gold filled, and stainless steel cases. Cash. Inquire E. W. D., Box 128, East New Market, Md.

17 Jewel GENTS WATERPROOFS
Brand new, 17 jewel, Incabloc, sweep second, antimagnetic, radium dial, $17.00 each. Immediate delivery Cash with order of C.O.D. Phillips Watch Company, 2831 Lombardy Court, Augusta, Georgia.

WATCHES—NEW—WATCHES
Ladies' 6x8, 17J, 14K, 6 Genuine Ruby Case, $21.00. Gent's 8¾, 17J, 14K, Rhinestone Dial, $22.00. Samples C.O.D., S. Lebowitz, 1127 Sheridan Ave., Bronx 56, N. Y.

ARTICLES FOR SALE (Cont.)

NEW AND USED cleaning and soldering machines, lathes and attachments. Cash paid for used tools. R. P. "Dick" Gallien, 220 W. 5th., Los Angeles 13, California.

For Sale. A bound volume containing the first three years of the American Horological Journal, from July 1869 on. What is your bid? G. Bargsten, Terra Bella, California.

100 GENUINE SYNTHETIC STONES. Extra value at $25.00. Rush orders for immediate shipment. B. Lowe, Dept. AH, Holland Bldg., St. Louis, Mo.

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Paulson Moves for Greatest of All Expansion

Henry Paulson & Company after 44 years of serving the jewelry and horological trade from 37 South Wabash ave., Chicago, are now expanding, and moving to 131 South Wabash ave.

Growing from small space to the entire 8th floor, 10,000 feet, the expansion of their business now requires nearly double the space, to perhaps what may be the largest single floor space of any concern in the watch and jewelry supply line.

Paulson opens their new Watchmaker and Jewelry Mart with double the present space, one block south of their old location. This new space when completed, will have a continued unusual convention display on the entire second floor.

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1947 Directory Published by Jewelers' Research

Jewelers' Research, 1217 Baltimore, Kansas City 6, Mo. has just released their 1947 Directory listing wholesalers and manufacturers in the United States.

This directory proves to be an invaluable reference guide in aiding wholesalers and manufacturers in finding names and addresses of firms listed under their outstanding lines. You will find wholesalers' addresses in specified cities, as well as manufacturers of clocks, watches, costume jewelry, silverware, general jewelry, precious and semi-precious stones, rings, watch materials tools and supplies, and many many others.

Calendar Chronograph

Longines-Wittnauer Watch company has just introduced the Wittnauer Calendar Chronograph. This new watch shows, at a glance, the time, the month, the date and the day—plus one-fifth second timing with time-out feature and a 12 hour elapsed time register. It is a watch that does almost everything.

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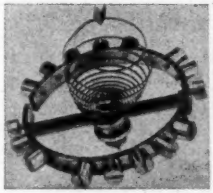

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